

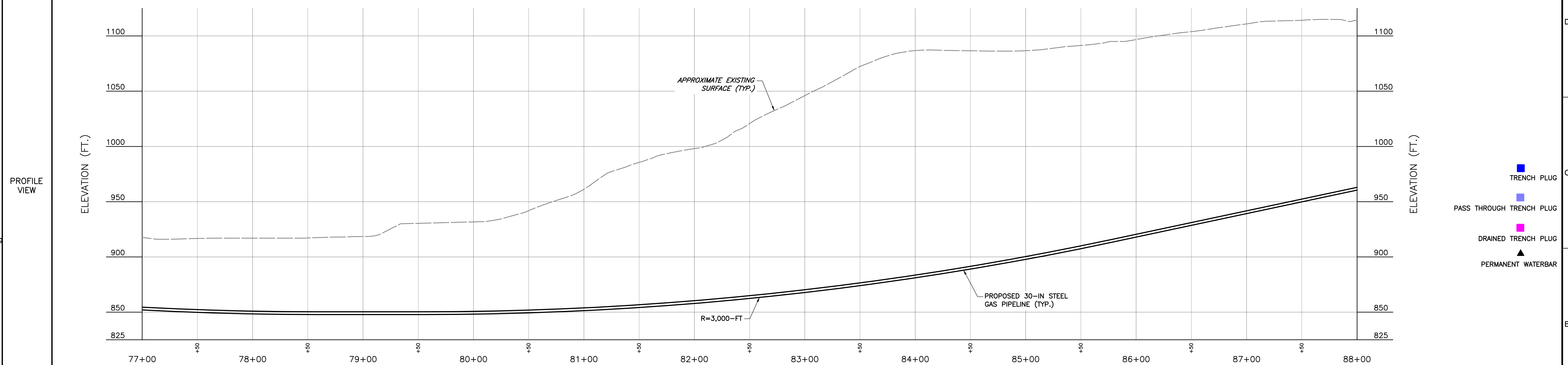
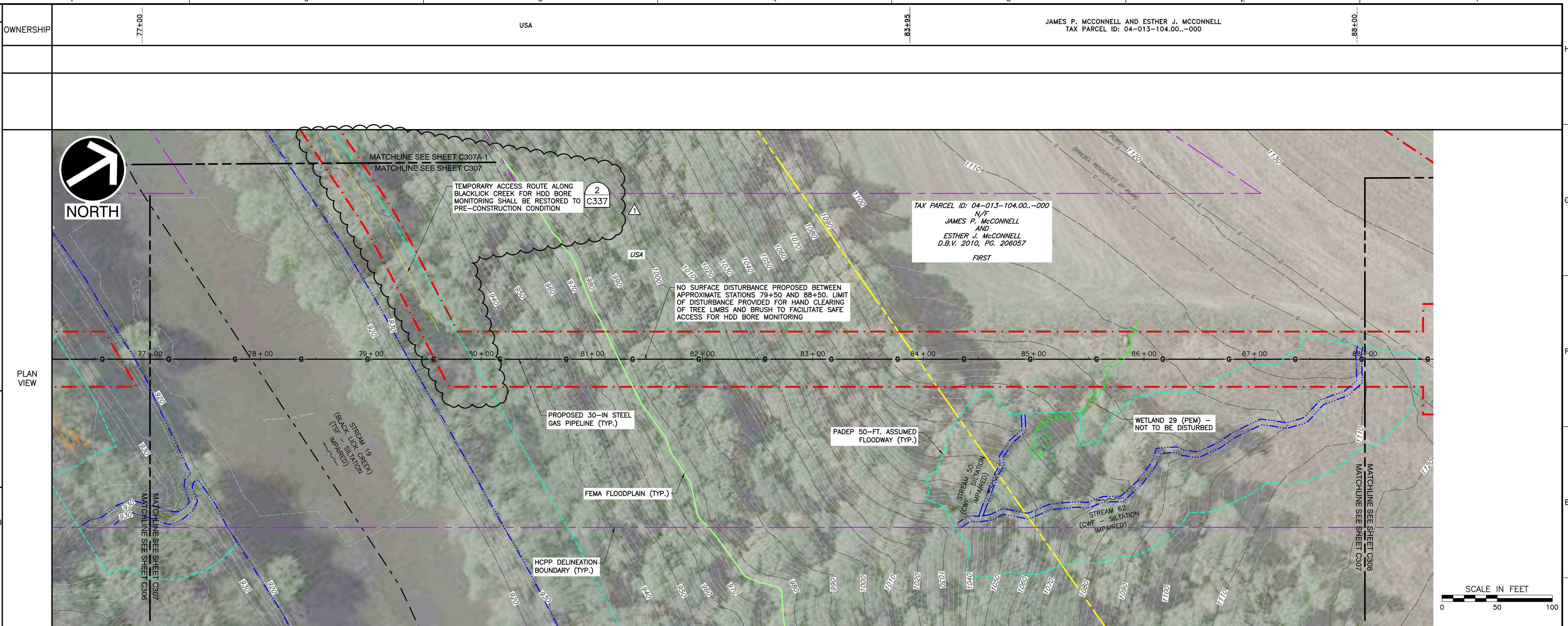
REFERENCES

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 - PROPOSED HYDRAULICALLY APPLIED SLOPE STABILIZATION
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REGISTERED PROFESSIONAL ENGINEER
CHARLES ROBERT KANE
3/6/26

HOMER CITY GENERATION, L.P.
HCPP PIPELINE
BURRELL, BLACKLICK, AND CENTER TOWNSHIPS
INDIANA COUNTY, PENNSYLVANIA

DRAWN BY: SCT CHECKED BY: CRK APPROVED BY: CRK
DATE: 09/24/2025 DWG SCALE: 1"=50' PROJECT NO: 354-010

POST CONSTRUCTION STORMWATER MANAGEMENT/SITE RESTORATION PLAN
C307
ALIGNMENT SHEET - STA. 77+00 - 88+00
SHEET 8 OF 43

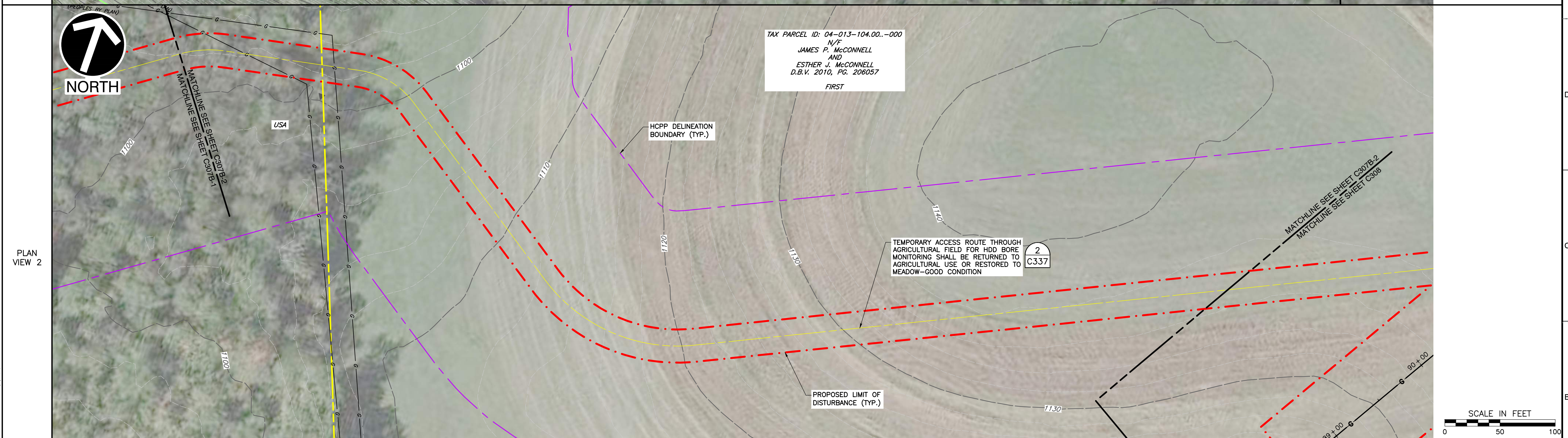
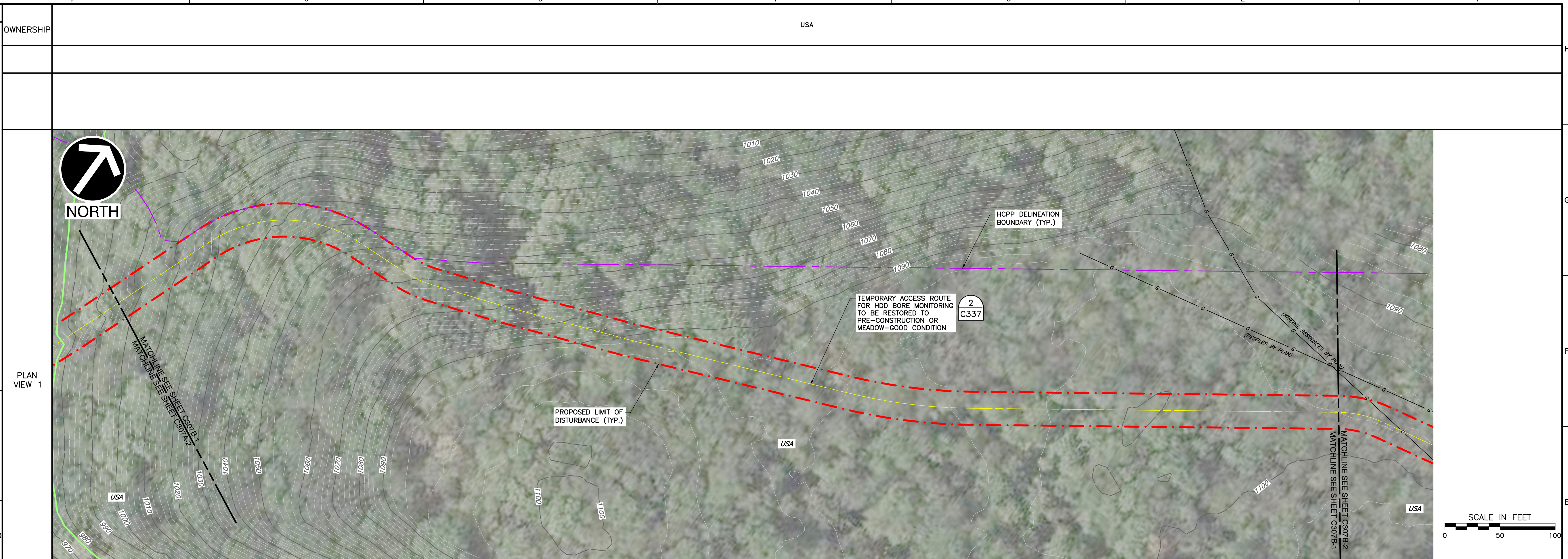
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 - PROPOSED RIPRAP APRON
 - PROPOSED WATERBAR
 - PROPOSED EMBEDDED DRAIN OUTLET
 - PROPOSED OUTLET DRAIN
 - PROPOSED WATERBAR WITH COMPOST FILTER SOCK OUTLET
 - PROPOSED SILTRON 16 SILT FENCE
 - PROPOSED SILTRON 21 SILT FENCE
 - PROPOSED SILTRON 28 SILT FENCE
 - PROPOSED TRENCH PLUG
 - PROPOSED PASS THROUGH TRENCH PLUG
 - PROPOSED DRAINED TRENCH PLUG
 - PROPOSED CEMENT MODIFIED BACKFILL
 - PROPOSED HYDRAULICALLY APPLIED SLOPE STABILIZATION
 - PROPOSED APR TEST AREA
 - PROPOSED ROCK CONSTRUCTION ENTRANCE
 - PROPOSED ORANGE CONSTRUCTION FENCE
 - PROPOSED SLOPE STABILIZATION
 - PROPOSED TIMBER MAT
 - PROPOSED FILL TOEKEY



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CHARLES ROBERT KANE
3/6/26

HOMER CITY GENERATION, L.P.
HCCP PIPELINE
BURRELL, BLACKLICK, AND CENTER TOWNSHIPS
INDIANA COUNTY, PENNSYLVANIA

DRAWN BY: SCT CHECKED BY: CRK APPROVED BY: CRK
DATE: 09/24/2025 DWG SCALE: 1"=50' PROJECT NO: 354-010

POST CONSTRUCTION STORMWATER MANAGEMENT/SITE RESTORATION PLAN
ACCESS ROADS AND TEMPORARY WORKSPACE

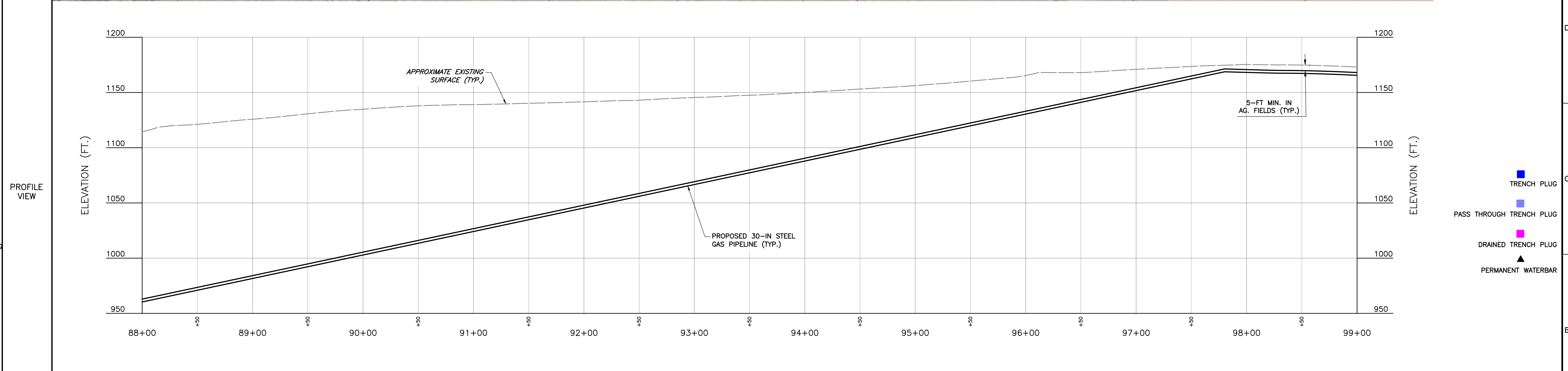
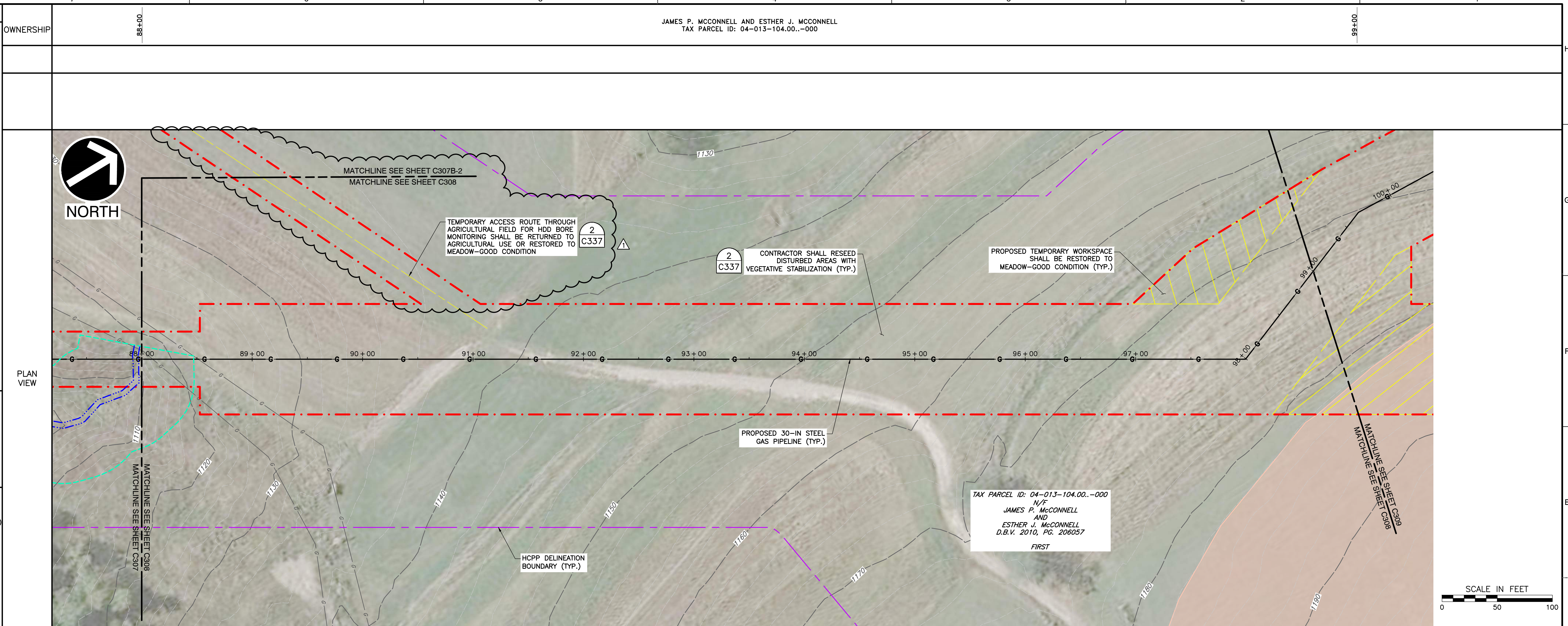
C307B

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ALIGNMENT SHEET - STA. 88+00 - 99+00

C308
 SHEET 9 OF 43

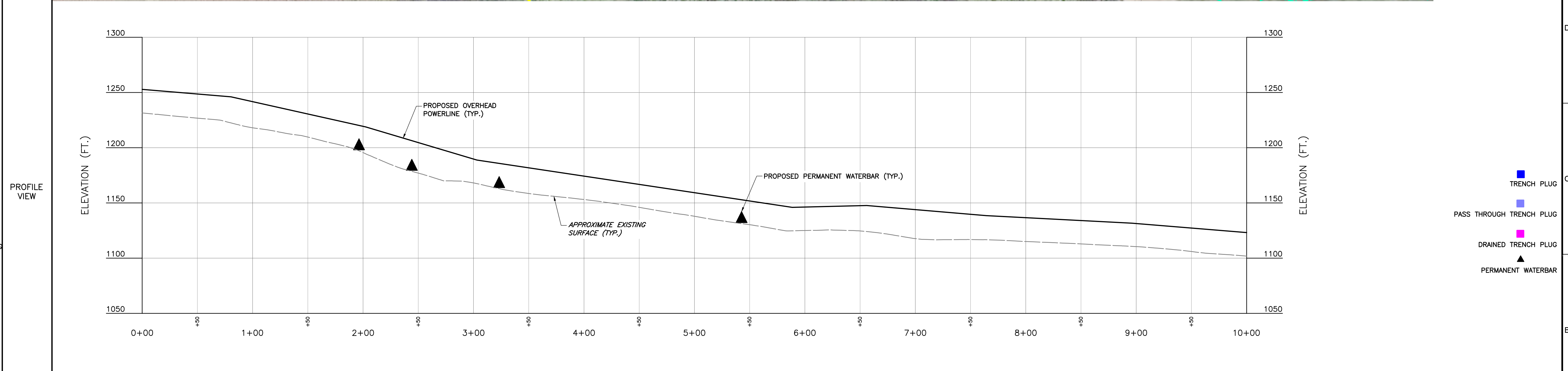
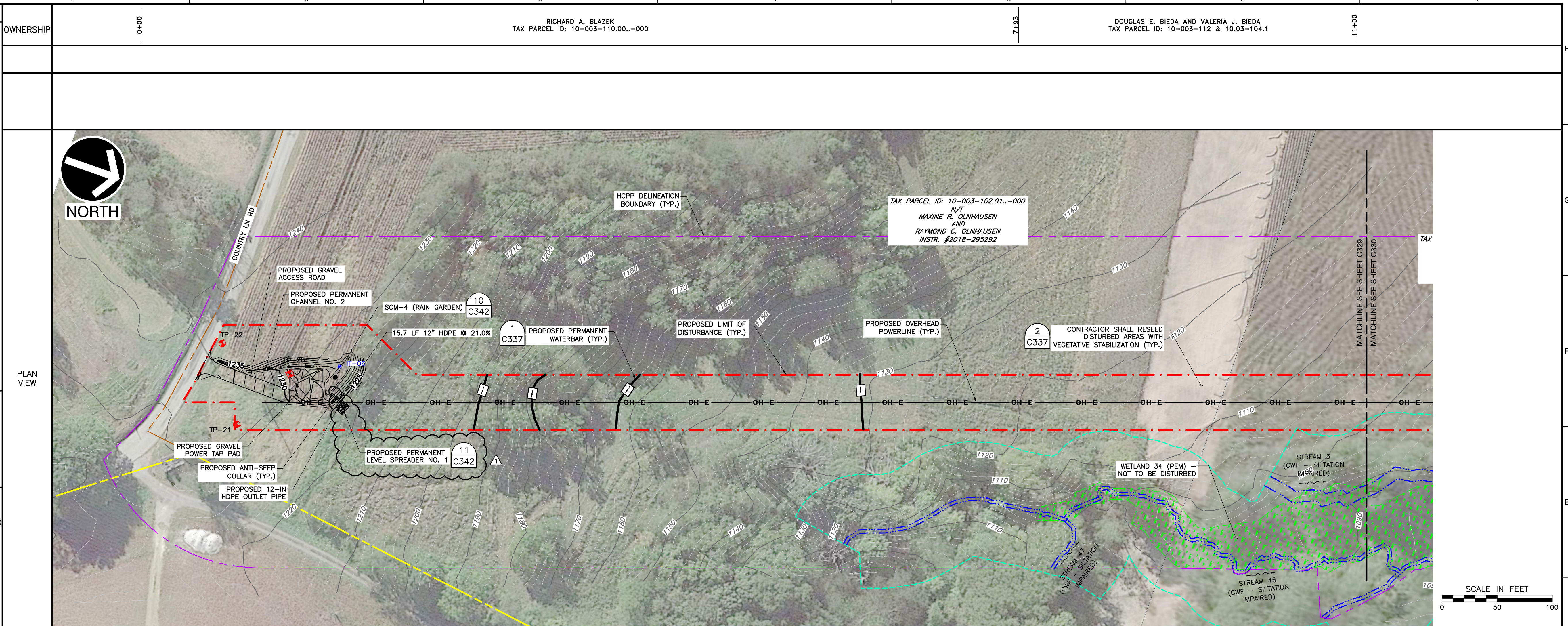
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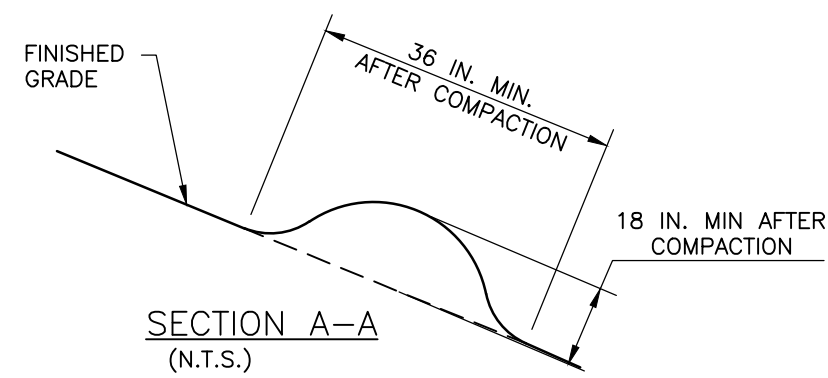
REGISTERED PROFESSIONAL ENGINEER
CHARLES ROBERT KANE
3/6/26

HOMER CITY GENERATION, L.P.
HCPP PIPELINE
BURRELL, BLACKLICK, AND CENTER TOWNSHIPS
INDIANA COUNTY, PENNSYLVANIA

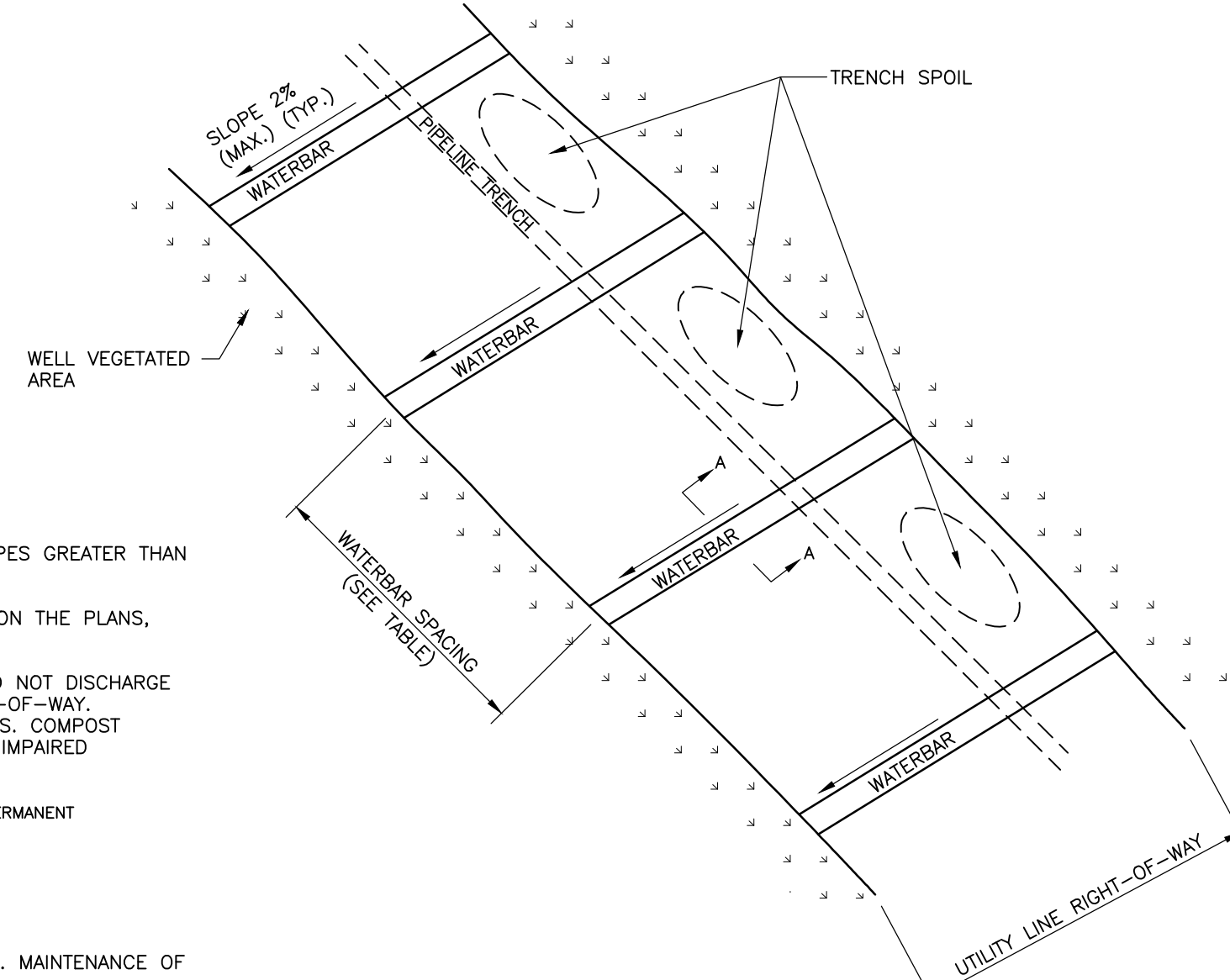
DRAWN BY: SCT | CHECKED BY: CRK | APPROVED BY: CRK
DATE: 09/24/2025 | DWG SCALE: 1"=50' | PROJECT NO: 354-010

POST CONSTRUCTION STORMWATER MANAGEMENT/SITE RESTORATION PLAN
ALIGNMENT SHEET - 0+00 TO 10+00

C329
SHEET 30 OF 43



REQUIRED SPACING FOR PERMANENT WATERBARS	PERCENT SLOPE	SPACING (FT)
	<5	250
	5-15	150
	15-30	100
	>30	50



WATERBAR INSTALLATION
N.T.S.

DETAIL 1
TYPICAL WATERBAR INSTALLATION
N.T.S.

SEED MIXTURE USE	
SITE CONDITION	SEED MIXTURE (SELECT ONE)
CUT SLOPES AND FILLS (NOT MOWED) WELL DRAINED	4*
CUT SLOPES AND FILLS (NOT MOWED) VARIABLE DRAINAGE	4*
CUT SLOPES AND FILLS (MOWED)	1*
CUT SLOPES AND FILLS (GRAZED/HAY)	1* OR 2*
GULLIES AND ERODED AREAS	4*
EROSION CONTROL BMPs - CHANNELS, DRAINAGE DITCHES, TRAPS, EMBANKMENTS, ETC.	1*
EROSION CONTROL BMPs - FOR HAY OR SILAGE	2*
RIGHT-OF-WAY, WELL-DRAINED	1*, 2*, OR 4*
RIGHT-OF-WAY, VARIABLE DRAINAGE	2* OR 3*
RIGHT-OF-WAY, WELL-DRAINED AREAS FOR GRAZING/HAY	2*
STRIP MINED AREAS - SPOILS, WASTE AREAS, FLY ASH, SLAG, ETC.	2*, 3*, OR 4*
STRIP MINED AREAS - FOR GRAZING/HAY	2* OR 4*
STATE GAME LANDS	5**

* PLUS "NURSE CROP" OF 64 LBS/ACRE OF OATS OR 112 LBS/ACRE OF WINTER RYE

** PLUS A "NURSE CROP" OF 1 BUSH/ACRE OF OATS IF PLANTING BETWEEN EARLY SPRING AND MIDSUMMER OR 1 BUSH/ACRE OF WINTER WHEAT IF PLANTING BETWEEN MIDSUMMER AND EARLY SPRING. NO SEED SUBSTITUTIONS PERMITTED ON STATE GAME LANDS

PERMANENT SEED MIXTURES			
MIXTURE NUMBER	SEASON	SPECIES	SEEDLING RATE LB/AC
1	COOL	FINE FESCUE, PLUS REDTOP PLUS BIRDSFOOT TREFLOIL	46 4 8
2	COOL	ORCHARDGRASS PLUS BIRDSFOOT TREFLOIL	26 8
3	WARM	DEERTONGUE, PLUS BIRDSFOOT TREFLOIL	21 8
4	WARM	SWITCHGRASS OR BIG BLUESTEM, PLUS BIRDSFOOT TREFLOIL	15 15 8
5	WARM/COOL	BIRDSFOOT TREFLOIL, PLUS RED CLOVER, PLUS ALSIKE CLOVER, PLUS LADINO CLOVER	10 5 5 5

SOIL AMENDMENT APPLICATION RATES			
	TEMPORARY SEEDING APPLICATION RATE PER ACRE	PERMANENT SEEDING APPLICATION RATE PER ACRE	STATE GAME LANDS PERMANENT SEEDING APPLICATION RATE PER ACRE
AGRICULTURAL LIME	1 TON	6 TONS	4 TONS
10-10-10 FERTILIZER	500 LBS	---	---
10-20-20 FERTILIZER	---	1,000 LBS	300 LBS

* TYPICALLY NOT REQUIRED FOR TOPSOIL STOCKPILES OR AS PER SOIL TEST; MAY NOT BE REQUIRED IN AGRICULTURAL FIELDS

MULCH APPLICATION RATES		
MATERIAL	APPLICATION RATE (TON/AC)	NOTES
STRAW	3	EITHER WHEAT OR OAT STRAW, FREE OF WEEDS, NOT CHOPPED OR FINELY BROKEN
HAY	3	TIMOTHY, MIXED CLOVER AND TIMOTHY OR OTHER NATIVE FORAGE GRASSES
WOOD CHIPS	4-6	MAY PREVENT GERMINATION OF GRASSES AND LEGUMES
HYDROMULCH	1	SHREDDED PAPER MULCH SHOULD NOT BE USED ON SLOPES STEEPER THAN 5%; WOOD FIBER MULCH MAY BE APPLIED ON STEEPER SLOPES PROVIDED A TACKIFIER IS USED

NOTE:

STRAW (CERTIFIED WEED FREE) SHALL BE APPLIED TO STATE GAME LANDS AT A RATE OF 100 STANDARD BALES PER ACRE. NO HAY MULCH SHALL BE USED ON STATE GAME LANDS

NOTES:

1. WATERBARS (SLOPE BREAKERS, INTERCEPTOR DIKES) SHOULD BE INSTALLED ACROSS THE ENTIRE RIGHT-OF-WAY ON ALL SLOPES GREATER THAN 5%.
2. WATERBARS SHALL BE PLACED AT 2% MAXIMUM SLOPE DOWNHILL. THEY SHALL BE SPACED AT THE INCREMENTS AS SHOWN ON THE PLANS, AND IN ACCORDANCE WITH PADEP OIL & GAS E&S STANDARDS.
3. WATERBARS SHOULD BE CONSTRUCTED AT A SLOPE OF 2% AND DISCHARGE TO A WELL-VEGETATED AREA. WATERBARS SHOULD NOT DISCHARGE INTO AN OPEN TRENCH. WATERBARS SHOULD BE ORIENTED SO THAT THE DISCHARGE DOES NOT FLOW BACK ONTO THE RIGHT-OF-WAY. OBSTRUCTIONS, (E.G. STRAW BALES, COMPOST FILTER SOCK, ROCK FILTERS, ETC.) SHOULD NOT BE PLACED IN ANY WATERBARS. COMPOST FILTER SOCKS SHOULD BE LOCATED BELOW THE DISCHARGE END OF A WATERBAR LOCATED IN A HIGH QUALITY OR SILTATION-IMPAIRED WATERSHED.
4. COMPOST FILTER SOCK AT END OF WATERBARS IN HIGH QUALITY AND SILTATION IMPAIRED WATERSHEDS SHALL BE REMOVED UPON ACHIEVEMENT OF PERMANENT STABILIZATION
5. REFER TO PADEP MANUAL FOR MORE INFORMATION.

INSPECTION: WATERBARS SHALL BE INSPECTED WEEKLY (DAILY ON ACTIVE ROADS) AND AFTER EACH RUNOFF EVENT.

MAINTENANCE: DAMAGED OR ERODED WATERBARS SHALL BE RESTORED TO ORIGINAL DIMENSIONS WITHIN 24 HOURS OF INSPECTION. MAINTENANCE OF WATERBARS SHALL BE PROVIDED UNTIL ROADWAY, SKIDTRAIL, OR RIGHT-OF-WAY HAS ACHIEVED PERMANENT STABILIZATION.

POST-CONSTRUCTION STORMWATER MANAGEMENT/SITE RESTORATION NOTES

1. THIS PLAN IS FOR POST-CONSTRUCTION STORMWATER MANAGEMENT/SITE RESTORATION PURPOSES ONLY.
2. EXISTING CONDITIONS AS DEPICTED ON THESE PLANS ARE GENERAL AND ILLUSTRATIVE IN NATURE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXAMINE THE SITE AND BE FAMILIAR WITH EXISTING CONDITIONS PRIOR TO BIDDING ON THIS PROJECT. IF CONDITIONS ENCOUNTERED DURING EXAMINATION ARE SIGNIFICANTLY DIFFERENT THAN THOSE SHOWN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
3. THE CONTRACTOR AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR COMPLYING WITH APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SUBCONTRACTORS TO INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.
4. THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE OWNER, OWNER'S REPRESENTATIVE, AND ENGINEER FOR ANY AND ALL INJURIES AND/OR DAMAGES TO PERSONNEL, EQUIPMENT AND/OR EXISTING FACILITIES OCCURRING IN THE COURSE OF THE DEMOLITION AND CONSTRUCTION DESCRIBED IN THE PLANS AND SPECIFICATIONS.
5. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL CODES, OBTAIN ALL APPLICABLE PERMITS, AND PAY ALL REQUIRED FEES PRIOR TO BEGINNING WORK.
6. CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THIS CONSTRUCTION SET FOR OTHER PERTINENT INFORMATION. IT IS NOT THE ENGINEER'S INTENT THAT ANY SINGLE PLAN SHEET IN THIS SET OF DOCUMENTS FULLY DEPICTS ALL WORK ASSOCIATED WITH THE PROJECT.
7. WATERBARS SHALL BE PLACED AT 2% MAXIMUM SLOPE DOWNHILL. THEY SHALL BE SPACED AT THE INCREMENTS AS SHOWN ON THE PLANS, AND IN ACCORDANCE TO PADEP OIL & GAS E&S STANDARDS. WATERBARS IN AGRICULTURAL AND/OR RESIDENTIAL AREAS MAY BE REMOVED AT THE DISCRETION OF THE PROPERTY OWNERS.
8. ALL DISTURBED AREAS ASSOCIATED WITH THE PIPELINE CONSTRUCTION ARE TO BE RESTORED TO EXISTING GRADE, AND TO A SUFFICIENT LEVEL OF VEGETATION TO ENSURE THE PROJECT RESULTS IN NO NET INCREASE IN POST DEVELOPMENT STORMWATER RUNOFF. APPROPRIATE PCSM BMPs ARE PROPOSED ALONG THE PERMANENT ACCESS ROADS, MAR PAD, AND VALVE PAD TO ENSURE THAT THE INSTALLATION OF THESE FEATURES RESULTS IN NO NET INCREASE IN POST DEVELOPMENT STORMWATER RUNOFF.
9. DISTURBED AREAS ASSOCIATED WITH THE M&R FACILITY ARE TO BE GRADED TO EXISTING/PROPOSED GRADE, NON-GRAVELED AREAS SHALL BE REVEGETATED IN ACCORDANCE WITH THE PERMANENT SEEDING SPECIFICATIONS UNTIL A UNIFORM, PERMANENT 70% VEGETATED COVER IS ESTABLISHED.
10. MAINTENANCE: INSPECTION OF THE RIGHT-OF-WAY SHALL OCCUR AFTER EACH RUNOFF EVENT, BUT NO LESS THAN ONCE PER WEEK TO LOOK FOR SIGNS OF EROSION, UNTIL A 70 PERCENT UNIFORM, PERENNIAL VEGETATIVE COVER HAS BEEN ACHIEVED. ONCE THE RIGHT-OF-WAY IS STABILIZED, INSPECTION OF THE RIGHT-OF-WAY SHALL OCCUR MONTHLY.
11. INSPECTION: POST CONSTRUCTION STORMWATER MANAGEMENT/SITE RESTORATION BMPs SHALL BE INSPECTED AFTER EACH RAINFALL EVENT AND ON A WEEKLY BASIS. ANY NECESSARY REPAIRS MUST BE MADE IMMEDIATELY TO ENSURE EFFECTIVE AND EFFICIENT OPERATION.
12. IT SHALL BE UNLAWFUL TO ALTER OR REMOVE ANY PERMANENT POST-CONSTRUCTION STORMWATER CONTROL MEASURES (SCMS) REQUIRED BY AN APPROVED STORMWATER CONTROL AND SCM OPERATIONS AND MAINTENANCE PLAN OR TO ALLOW THE PROPERTY TO REMAIN IN A CONDITION WHICH DOES NOT CONFORM TO AN APPROVED STORMWATER CONTROL AND SCM OPERATIONS AND MAINTENANCE PLAN.
13. THE OWNER/OPERATOR SHALL MONITOR AND MAINTAIN THE POST-CONSTRUCTION SCMS TO ENSURE PROPER OPERATION AND/OR ESTABLISHMENT. THIS INCLUDES MONITORING OF SEEDING TO ENSURE THE SEED CONTINUES TO MATURE. MAINTENANCE OF THE RIGHT-OF-WAY SHALL BE THE RESPONSIBILITY OF THE OWNER/OPERATOR FOR ONE GROWING SEASON.
14. THE OWNER/OPERATOR SHALL MONITOR AND MAINTAIN THE SCMS TO ENSURE PROPER OPERATION AND/OR ESTABLISHMENT. THIS INCLUDES MONITORING OF SEEDING TO ENSURE THE SEED CONTINUES TO MATURE. MAINTENANCE OF THE DISTURBED AREAS SHALL BE THE RESPONSIBILITY OF THE OWNER/OPERATOR.

POST-CONSTRUCTION STORMWATER MANAGEMENT/SITE RESTORATION CONSTRUCTION SEQUENCE

THE SEQUENCE BELOW IS SPECIFIC TO THE POST-CONSTRUCTION STAGE OF THE PROJECT.

1. CONTRACTOR SHALL INSPECT CHANNELS AND STORM PIPES FOR SIGNS OF SEDIMENTATION. SEDIMENT SHALL BE REMOVED, AS NECESSARY, AND RESPREAD ON-SITE.
2. CONCURRENT WITH FACILITY PAD CONSTRUCTION, COMMENCE CONSTRUCTION OF PCSM SCMS. DURING AND FOLLOWING CONSTRUCTION OF THE SCMS, THE CONTRACTOR SHALL TAKE MEASURES TO PREVENT SEDIMENT-LADEN WATER FROM ENTERING THE SCMS, TO THE EXTENT PRACTICABLE. WHILE CONSTRUCTING THE SCM EMBANKMENTS, INSTALL PERMANENT OUTLET STRUCTURES, OUTLET PIPES, AND ANTI-SLEEP COLLARS FOR ALL SCMS, RIPRAP APRON OUTLET PROTECTION FOR SCM-1, SCM-2 AND SCM-3, LEVEL SPREADER FOR SCM-4, AND EMERGENCY SPILLWAY FOR SCM-2.
3. CONTRACTOR SHALL TAKE MEASURES TO MINIMIZE COMPACTION WITHIN THE RAIN GARDEN (SCM-1, SCM-3, AND SCM-4) SUBGRADE FOOTPRINTS, TO THE EXTENT PRACTICABLE. UPON REACHING SUBGRADE ELEVATION IN THE RAIN GARDENS, THE CONTRACTOR SHALL PERFORM DECOMPACTION VIA SCARIFYING OR TILLING THE EXPOSED SOIL LAYER USING LIGHTWEIGHT EQUIPMENT AND NOTIFY THE ENGINEER FOR CONFIRMATION OF DECOMPACTION.
4. FOLLOWING CONFIRMATION OF DECOMPACTION, CONFIRMATION INFILTRATION TESTING SHALL BE PERFORMED. UPON COMPLETION OF CONFIRMATION INFILTRATION TESTING, PLANTING SOILS MAY BE PLACED
5. ONCE ALL DISTURBED AREAS HAVE BEEN STABILIZED AND A UNIFORM 70 PERCENT VEGETATIVE COVER HAS BEEN ESTABLISHED, THE E&S SCMS SHALL BE REMOVED. ANY AREAS DISTURBED DURING THE REMOVAL SHALL BE IMMEDIATELY STABILIZED AND SEED.

LONG-TERM OPERATION AND MAINTENANCE PROGRAM

A MAINTENANCE PROGRAM FOR STORMWATER CONTROL MEASURES HAS BEEN PREPARED. THE OWNER WILL BE THE PRIMARY OPERATOR OF THE PARCEL AND WILL BE RESPONSIBLE FOR MAINTENANCE OF PCSM CONTROL FEATURES.

THE PCSM DRAWINGS PROVIDE THE LOCATIONS OF THE PROPOSED SCMS WHICH WILL REQUIRE MAINTENANCE. MAINTENANCE ACTIVITIES WILL FOLLOW THE SCHEDULE DESCRIBED BELOW:

STORMWATER MANAGEMENT SCMS (DRY EXTENDED DETENTION BASIN, RAIN GARDEN, AND CONVEYANCE CONDUIT):

- STORMWATER MANAGEMENT SCMS SHALL BE INSPECTED QUARTERLY AND AFTER RAINFALL EVENTS OF 1.5 INCHES OF RUNOFF OR GREATER IN A 24-HOUR PERIOD. REMOVE ACCUMULATED DEBRIS, TRASH, SEDIMENT, ETC. TO MAINTAIN THE STORAGE VOLUME AND ENSURE PROPER FUNCTION.
- STORMWATER CONVEYANCE FACILITIES UP GRADIENT OF THE STORMWATER MANAGEMENT BMPs SHOULD BE INSPECTED AND CLEANED AT LEAST TWO (2) TIMES PER YEAR AND AFTER RUNOFF EVENTS.
- THE VEGETATION ALONG THE SURFACE OF THE STORMWATER MANAGEMENT SCMS SHOULD BE MAINTAINED IN GOOD CONDITION, AND BARE SPOTS REVEGETATED AS SOON AS POSSIBLE.
- VEHICLES SHOULD NOT BE PARKED OR DRIVEN ON THE SCMS AND CARE SHOULD BE TAKEN TO AVOID EXCESSIVE COMPACTION BY MOWERS.
- INSPECT THE SCMS AFTER RUNOFF EVENTS AND MAKE SURE THE RUNOFF DRAINS DOWN WITHIN 72 HOURS.
- INSPECT FOR ACCUMULATION OF SEDIMENT, DAMAGE TO OUTLET CONTROL STRUCTURES, EROSION MEASURES, SIGNS OF WATER CONTAMINATION/SPILLS, AND SLOPE STABILITY WITHIN THE SCMS.
- MOW ONLY AS APPROPRIATE FOR VEGETATIVE COVER SPECIES.
- REMOVE ACCUMULATED SEDIMENT FROM SCMS AS REQUIRED. PROPERLY DISPOSE OF SEDIMENT.

STORMWATER CONTROL MEASURE: RAIN GARDEN

- RAIN GARDEN SHALL BE INSPECTED QUARTERLY WHILE VEGETATION IS BEING ESTABLISHED. PRUNING AND/OR WEEDING SHALL BE PERFORMED AS NECESSARY DURING THIS TIME PERIOD.
- DETRITUS SHALL BE REMOVED ONCE PER YEAR. PERENNIAL PLANTINGS SHALL BE CUT AS NECESSARY AT THE END OF THE GROWING SEASON.
- MULCH SHALL BE RE-SPREAD AND BE REPLENISHED AS NEEDED. ONCE EVERY 2 TO 3 YEARS, THE ENTIRE AREA MAY REQUIRE MULCH REPLACEMENT.
- RAIN GARDEN AREA SHOULD BE INSPECTED AT LEAST TWO (2) TIMES PER YEAR FOR SEDIMENT BUILDUP, EROSION, VEGETATIVE CONDITIONS, ETC.

CHANNELS/VEGETATED SWALES:

1. CHANNELS AND VEGETATED SWALES SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER EACH RUNOFF EVENT [0.25-INCH (E&S) AND 1-INCH (PCSM) OF RUNOFF OR GREATER IN 24 HOURS].
2. CHANNELS AND VEGETATED SWALES SHOULD BE MAINTAINED TO ENSURE THAT THE SPECIFIED DIMENSIONS AND PROTECTIVE LINING, IF APPLICABLE, ARE AVAILABLE AT ALL TIMES. CHANNELS AND VEGETATED SWALES SHOULD BE CLEANED WHENEVER TOTAL DEPTH IS REDUCED BY 25 PERCENT. DAMAGED LININGS, BARE AREAS, AND EROSIONAL FEATURES SHOULD BE PROMPTLY CORRECTED.
3. VEGETATED SWALES SHALL BE MOWED/TRIMMED PERIODICALLY TO ALLOW FOR PROPER SWALE OPERATION.

RIPRAP APRONS:

1. APRONS SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER EACH RUNOFF EVENT.
2. DISPLACED RIPRAP WITHIN THE APRON SHALL BE PROMPTLY REPLACED.

LANDSCAPING / LAWN CARE:

1. REMOVE ACCUMULATED SEDIMENT FROM LANDSCAPED/RESTORATION AREAS AND REPLACE DISEASED OR DEAD VEGETATION AS NECESSARY ON AN ANNUAL BASIS. ADDITIONALLY, MAINTENANCE AND REPAIR OF AREAS THAT EXPERIENCE EROSION IS REQUIRED AS NECESSARY.

CRITICAL CONSTRUCTION STAGES

A LICENSED PROFESSIONAL ENGINEER, OR THEIR DESIGNEE, SHALL BE PRESENT ON-SITE DURING CRITICAL STAGES OF IMPLEMENTATION OF THE PCSM PLAN, WHICH INCLUDES SPECIFIC STAGES OF CONSTRUCTION FOR THE RAIN GARDENS AND DRY EXTENDED DETENTION BASIN SCMS. INSPECTIONS BY THE LICENSED PROFESSIONAL ENGINEER OR THEIR DESIGNEE WILL BE REQUIRED DURING CONSTRUCTION, SPECIFICALLY DURING EMBANKMENT CONSTRUCTION, INCLUDING THE CONSTRUCTION OF OUTLET STRUCTURES, OUTLET PIPES, AND ANTI-SLEEP COLLARS FOR ALL SCMS, RIPRAP APRON OUTLET PROTECTION FOR SCM-1, SCM-2 AND SCM-3, AND LEVEL SPREADER FOR SCM-4, AS WELL AS DECOMPACTION OF THE SUBGRADE, CONFIRMATION INFILTRATION TESTING, AND PLACEMENT OF PLANTING SOILS WITHIN RAIN GARDEN SCMS.

RECYCLING/DISPOSAL OF MATERIALS

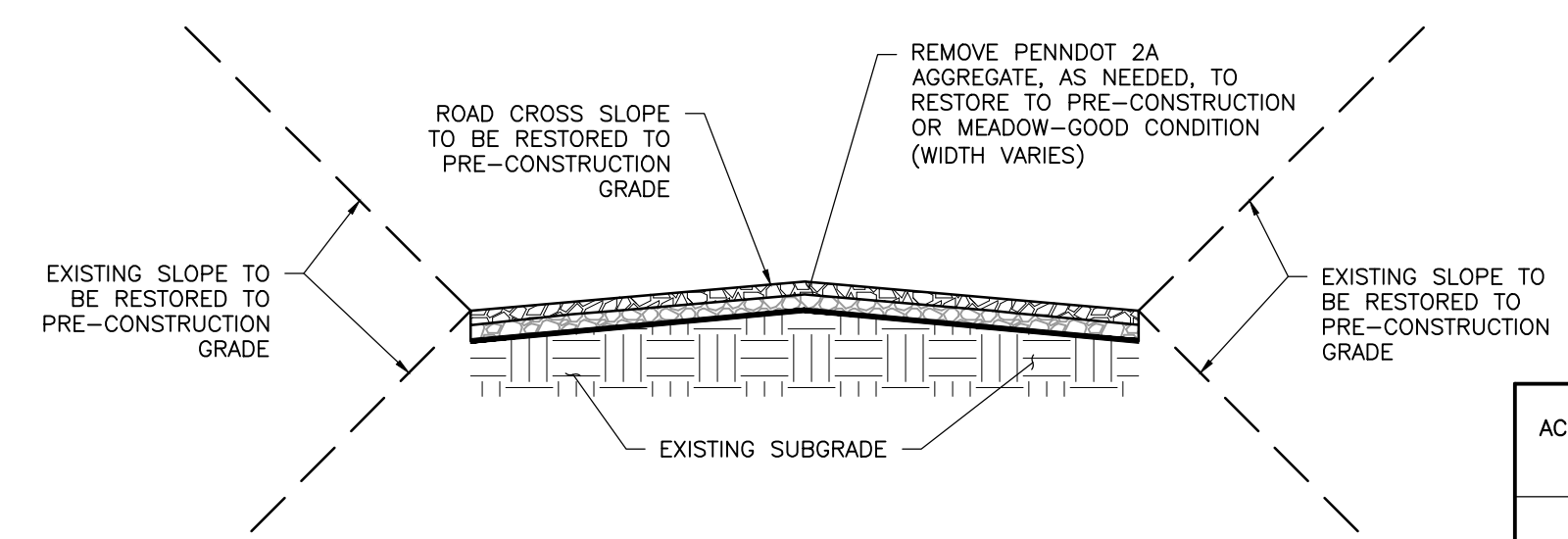
PRACTICES AND PROCEDURES MUST BE IN PLACE TO ENSURE THE PROPER HANDLING, STORAGE, CONTROL, DISPOSAL, AND RECYCLING OF GARBAGE, FUELS, OR ANY SUBSTANCE WHICH MAY BE HARMFUL TO HUMAN, AQUATIC, OR FISH LIFE. SAID ITEMS SHALL BE PREVENTED FROM ENTERING SPRINGS, STREAMS, PONDS, LAKES, WETLANDS, OR ANY WATER COURSE OR WATER BODY. OILS, FUELS, LUBRICANTS, AND COOLANTS SHALL BE PLACED IN SUITABLE CONTAINERS AND DISPOSED OF PROPERLY. TRASH AND GARBAGE SHALL BE COLLECTED AND DISPOSED OF PROPERLY AS WELL.

DISPOSE OF UNSUITABLE MATERIAL IN A LAWFUL MANNER ACCORDING TO THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION'S SOLID WASTE MANAGEMENT REGULATIONS (PA CODE TITLE 25, CHAPTER 206.1 ET. SEQ., 271.1 ET. SEQ., AND 287.1 ET. SEQ.). THE DISPOSAL SITE MUST HAVE A SEPARATE EROSION AND SEDIMENT CONTROL PLAN AND MUST BE APPROVED BY THE PADEP.

SEED MIXTURES FOR SPECIAL CONSIDERATION LAND USE AREAS

LAND USE	SEED MIXTURE	LOCATION
AGRICULTURAL	2	STA. 8+50 TO 23+50, STA. 28+50 TO 50+00, STA. 58+25 TO 73+00, STA. 88+50 TO 116+50, STA. 126+50 TO 139+40, STA. 151+50 TO 172+60, STA. 174+80 TO 191+90, STA. 194+70 TO 210+60, STA. 212+50 TO 222+00, STA. 224+40 TO 230+50, STA. 265+50 TO 288+50
RESOURCE BUFFER	ERNMIX-178 (DETAIL 5)	STA. 25+25 TO 27+70, STA. 51+10 TO 53+40, STA. 192+25 TO 194+70, STA. 222+00 TO 224+40, STA. 242+20 TO 248+40, STA. 279+00 TO 280+50, STA. 286+60 TO 288+90
FOREST RESTORED TO MEADOW	2	STA. 22+25 TO 27+40, STA. 51+10 TO 53+40, STA. 168+50 TO 172+50, STA. 191+90 TO 194+30, STA. 210+80 TO 212+50, STA. 222+00 TO 224+40, STA. 230+50 TO 265+50, STA. 268+50 TO 294+00,
RECLAIMED STRIP MINE	4	STA. 108+00 TO 112+50, STA. 117+50 TO 126+50, STA. 137+40 TO 137+90, STA. 138+70 TO 151+50, STA. 172+60 TO 174+80
STATE GAME LANDS	5	HDD BORE MONITORING ACCESS ROUTE

DETAIL 2
VEGETATIVE STABILIZATION



NOTES:

1. NO ROAD IMPROVEMENTS ARE PROPOSED OUTSIDE LOD. ALL PROPOSED RESTORATION NOTED REFERS TO SECTIONS OF ACCESS ROADS LOCATED WITHIN THE PROJECT LOD.
2. REMOVAL OF GRAVEL AND CLASS 4 GEOTEXTILE (IF INSTALLED) FROM ACCESS ROADS PER LIMITS NOTED UNDER THE RESTORATION NOTES IN THE TABLE.
3. REGRADE THE ACCESS ROAD AREA TO PRE-CONSTRUCTION GRADE AND TILL AREAS TO BE VEGETATED SUCH THAT THE TOP LAYER OF RESTORED AREA SHALL CONSIST OF AT LEAST 6-IN OF LOOSENED SOIL.
4. STABILIZE THE RESTORATION AREAS TO MEADOW IN GOOD CONDITION IN ACCORDANCE WITH DETAIL 2.

ACCESS ROAD ID	RESTORED SURFACE CONDITION
1	GRAVEL
2	GRAVEL
3	GRAVEL
4	GRAVEL
5	GRAVEL
6	GRAVEL
7	MEADOW
8	GRAVEL
9	GRAVEL
PROPOSED TEMPORARY ACCESS ROADS	PRE-CONSTRUCTION/MEADOW

DETAIL 3
ACCESS ROAD RESTORATION
N.T.S.

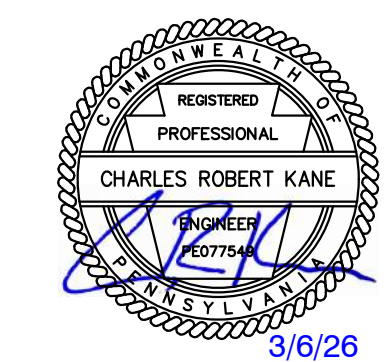
REVISION RECORD		
NO	DATE	DESCRIPTION
1	3/6/25	REVISED PER 126/26 PADEP COMMENT LETTER, COORDINATION WITH PGC, AND ADDITION OF HDD BORE MONITORING ACCESS



Civil & Environmental Consultants, Inc.
4350 Northern Pike - Suite 141 - Monroeville, PA 15146
Ph: 724.327.5200 - 800.899.3610 - Fax: 724.327.5280
www.cecinc.com

CALL BEFORE YOU DIG!
PENNSYLVANIA LAW REQUIRES 3 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE AND 10 WORKING DAYS IN DESIGN STAGE--STOP CALL PENNSYLVANIA ONE CALL SYSTEM, INC. 1-800-242-1776

PENNSYLVANIA ONE CALL LAW: 20250311704, 20250311705, 20250311706
PENNSYLVANIA ACT 38 (1991) REQUIRES NO LESS THAN 3 WORKING DAYS NOTICE NOR MORE THAN 10 WORKING DAYS NOTICE FROM EXCAVATORS WHO ARE ABOUT TO: DIG, DRILL, BLAST, AUGER, BORE, GRADE, TRENCH OR BODILY PENETRATION IN THE CONSTRUCTION PHASE. FOR LOCATION REQUESTS IN THE STATE OF PENNSYLVANIA, CALL TOLL FREE 1-800-242-1776. UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE INFORMATION AND THE LOCATION MUST BE CONSIDERED APPROXIMATE. OTHER UNDERGROUND UTILITIES MAY EXIST WHICH ARE NOT SHOWN. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN ALL PHYSICAL LOCATIONS OF UTILITY LINES PRIOR TO THE TIME OF CONSTRUCTION. IN NO WAY SHALL THE CONTRACTOR HOLD THE SURVEYOR RESPONSIBLE FOR ANY UTILITY LOCATION SHOWN ON THIS PLAN.

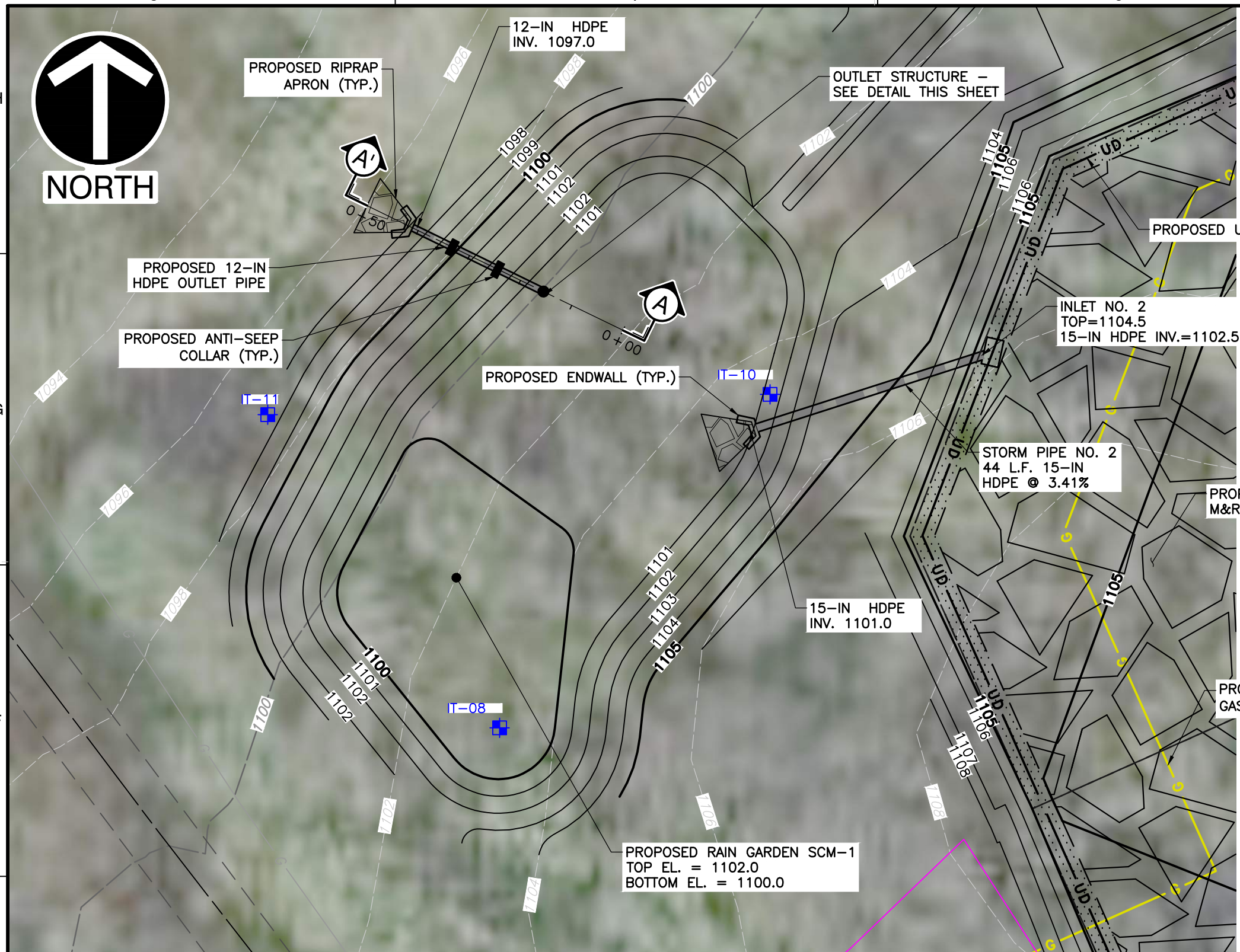


HOMER CITY GENERATION, L.P.
HCPP PIPELINE
BURRELL, BLACKLICK AND CENTER TOWNSHIPS
INDIANA COUNTY, PENNSYLVANIA

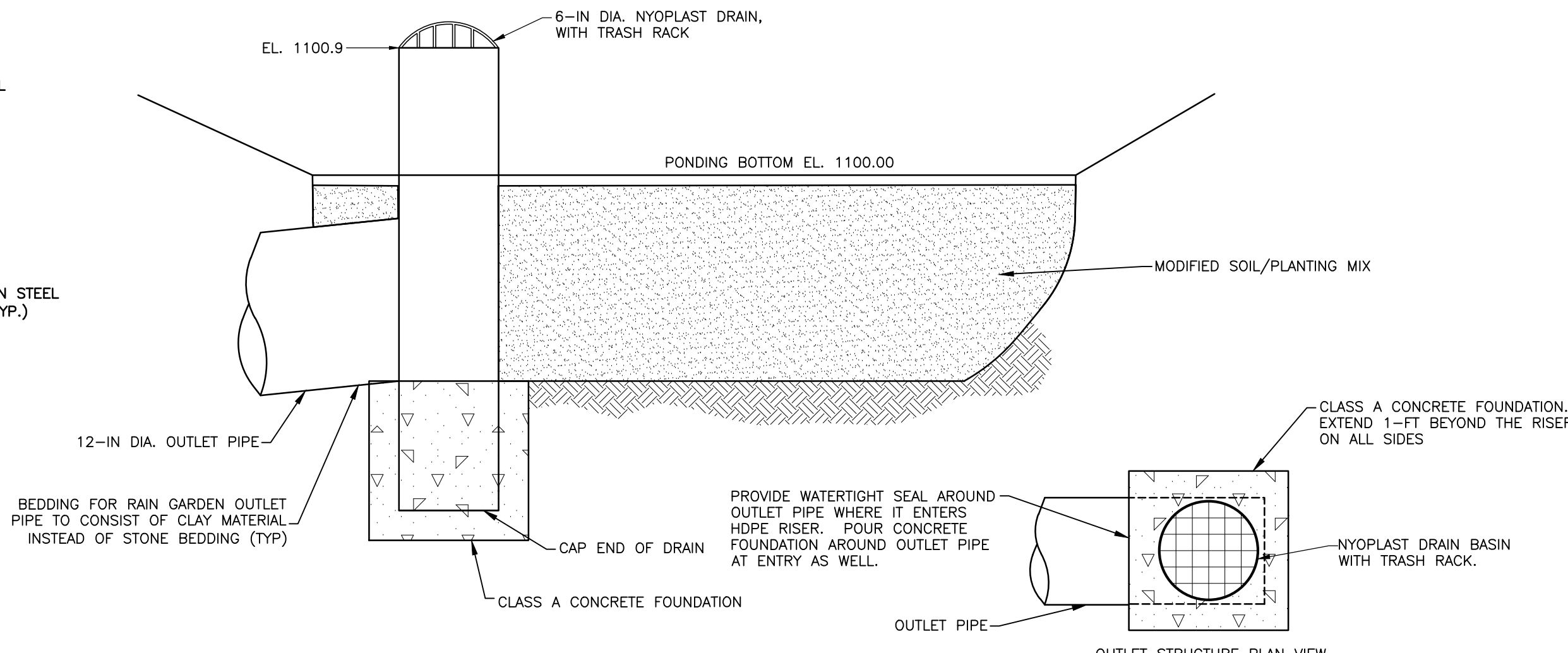
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POST-CONSTRUCTION STORMWATER MANAGEMENT/SITE RESTORATION PLAN
PCSM/SR DETAILS

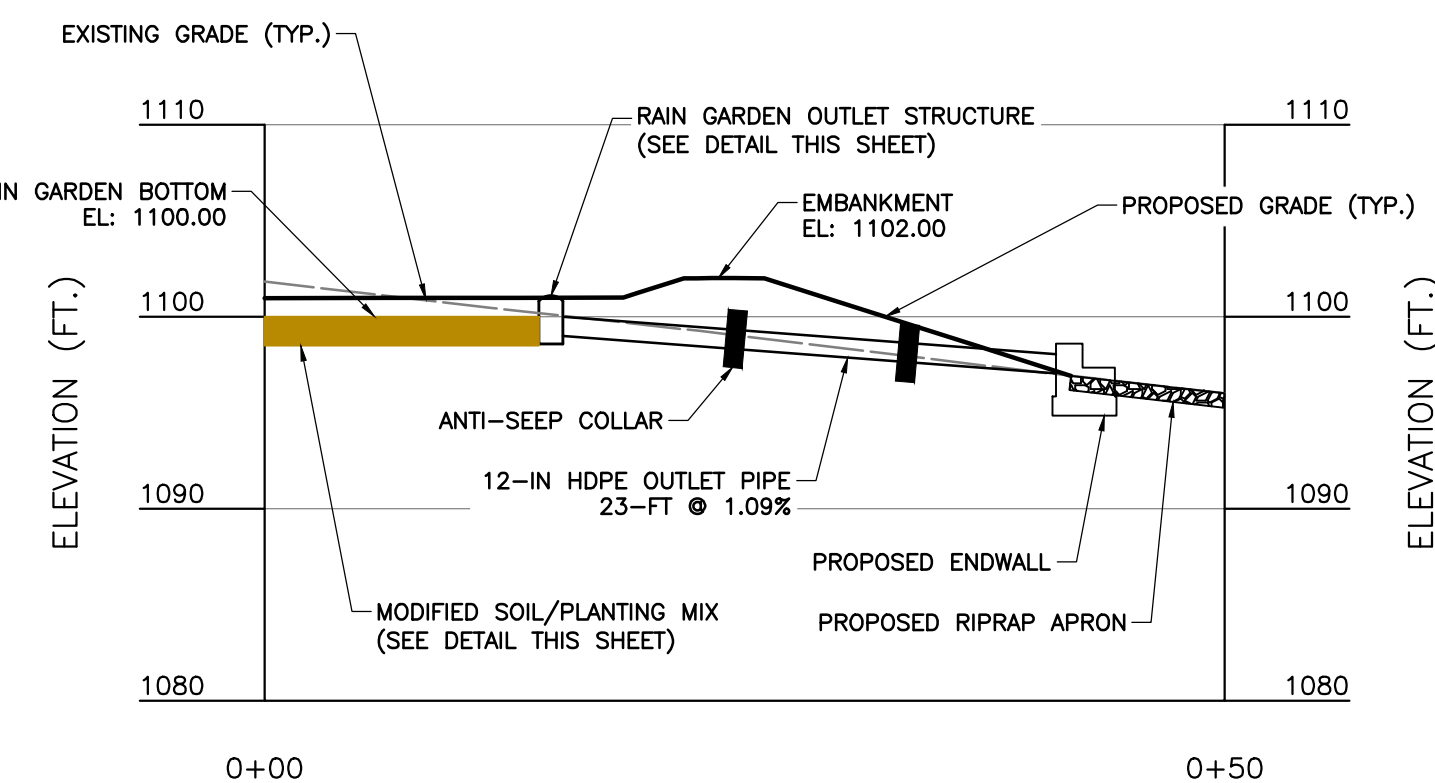
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SHEET 38 OF 43



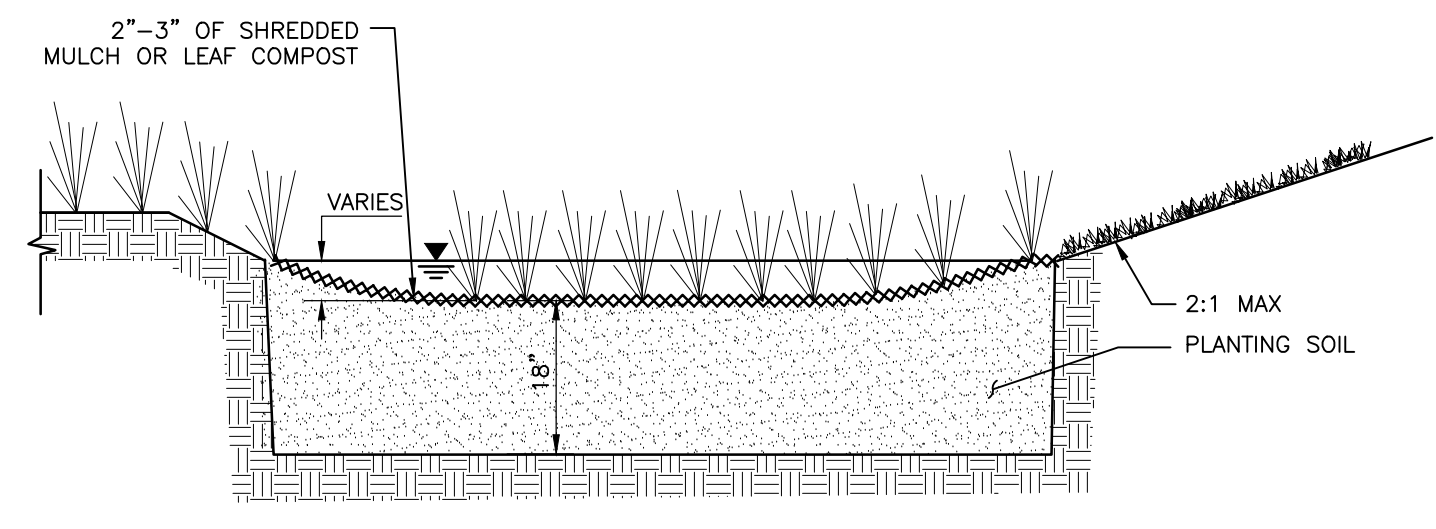
PLAN VIEW
SCALE IN FEET
0 20 40



SCM-1 RAIN GARDEN OUTLET STRUCTURE
NOT TO SCALE



CROSS-SECTION A-A'
SCALE IN FEET
0 10 20



TYPICAL RAIN GARDEN CROSS-SECTION
N.T.S.

- SUB-GRADE PREPARATION**
- EXISTING SUB-GRADE IN THE RAIN GARDENS SHALL NOT BE COMPACTED OR SUBJECT TO EXCESSIVE CONSTRUCTION EQUIPMENT TRAFFIC.
 - INITIAL EXCAVATION CAN BE PERFORMED DURING ROUGH SITE GRADING BUT SHALL NOT BE CARRIED TO WITHIN ONE FOOT OF THE FINAL BOTTOM ELEVATION. FINAL EXCAVATION SHOULD NOT TAKE PLACE UNTIL ALL DISTURBED AREAS IN THE DRAINAGE AREA HAVE BEEN STABILIZED.
 - WHERE EROSION OF SUB-GRADE HAS CAUSED ACCUMULATION OF FINE MATERIALS AND/OR SURFACE PONDING IN THE GRADED BOTTOM, THIS MATERIAL SHALL BE REMOVED WITH LIGHT EQUIPMENT AND THE UNDERLYING SOILS SCARIFIED TO A MINIMUM DEPTH OF 6 INCHES WITH A YORK RAKE OR EQUIVALENT BY LIGHT TRACTOR.
 - BRING SUB-GRADE OF RAIN GARDENS TO LINE, GRADE, AND ELEVATIONS AS INDICATED ON THE PLAN. FILL AND LIGHTLY REGRADE ANY AREAS DAMAGED BY EROSION, PONDING, OR TRAFFIC COMPACTION. ALL RAIN GARDENS SHALL BE LEVEL GRADE ON THE BOTTOM.
 - HALT EXCAVATION AND NOTIFY ENGINEER IMMEDIATELY IF EVIDENCE OF SINKHOLE ACTIVITY OR PINNACLES OF CARBONATE BEDROCK ARE ENCOUNTERED IN THE RAIN GARDENS.

- PLANTING SOIL**
- PLANTING SOIL MIX SHALL BE CLASSIFIED AS A MODIFIED SANDY LOAM ACCORDING TO THE USDA SOIL CLASSIFICATION AND SHALL CONSIST OF A 50% TOPSOIL (REMOVE ALL ROCKS AND FOREIGN MATTER), 20% COMPOST, AND 30% SAND.
 - PLANTING SOIL SHOULD BE APPROXIMATELY 4 INCHES DEEPER THAN THE BOTTOM OF THE LARGEST ROOT BALL OR PER DRAWINGS AND DETAILS WHICH EVER IS DEEPER.
 - THE PH SHOULD BE BETWEEN 5.5 AND 6.5, A CLAY CONTENT BETWEEN 5% AND 20% (SANDY LOAM), BE FREE OF TOXIC SUBSTANCES AND UNWANTED PLANT MATERIAL AND HAVE A MINIMUM SOIL ORGANIC MATTER LEVEL OF 5% ON THE WHOLE-SOIL (UNSIIEVED) BASIS.
 - PLANTING SOIL SHALL BE UNCOMPACTED.

- RAIN GARDEN INSTALLATION**
- CRITICAL STAGE:** DURING AND FOLLOWING CONSTRUCTION OF THE RAIN GARDEN, THE CONTRACTOR SHALL TAKE MEASURES TO PREVENT SEDIMENT-LADEN WATER FROM ENTERING THE SCM, TO THE EXTENT PRACTICABLE. WHILE CONSTRUCTING THE RAIN GARDEN EMBANKMENT, INSTALL PERMANENT OUTLET STRUCTURE, OUTLET PIPE, ANTI-SEEP COLLARS AND RIPRAP APRON OUTLET PROTECTION. CONSTRUCTION OF THESE FEATURES IS A CRITICAL STAGE OF CONSTRUCTION REQUIRING OVERSIGHT BY A LICENSED PROFESSIONAL OR THEIR DESIGNEE.
 - CRITICAL STAGE:** CONTRACTOR SHALL TAKE MEASURES TO MINIMIZE COMPACTION WITHIN THE SUBGRADE FOOTPRINT, TO THE EXTENT PRACTICABLE. UPON REACHING SUBGRADE ELEVATION, THE CONTRACTOR SHALL PERFORM DECOMPACTION VIA SCARIFYING OR TILLING THE EXPOSED SOIL LAYER USING LIGHTWEIGHT EQUIPMENT AND NOTIFY THE ENGINEER FOR CONFIRMATION OF DECOMPACTION. FOLLOWING CONFIRMATION OF DECOMPACTION, CONFIRMATION INFILTRATION TESTING SHALL BE PERFORMED. UPON COMPLETION OF CONFIRMATION INFILTRATION TESTING, PLANTING SOILS MAY BE PLACED. CONFIRMATION OF SUBGRADE DECOMPACTION, CONFIRMATION INFILTRATION TESTING, AND PLACEMENT OF PLANTING SOILS ARE CRITICAL STAGES OF CONSTRUCTION REQUIRING OVERSIGHT BY A LICENSED PROFESSIONAL OR THEIR DESIGNEE.
 - ANY ACCUMULATION OF DEBRIS OR SEDIMENT THAT TAKES PLACE AFTER APPROVAL OF SUB-GRADE SHALL BE REMOVED PRIOR TO INSTALLATION OF PLANTING SOILS AT NO EXTRA COST TO THE OWNER.
 - INSTALL PLANTING SOIL IN 18-INCH MAXIMUM LIFTS AND LIGHTLY COMPACT (TAMP WITH A BACKHOE BUCKET OR BY HAND). KEEP EQUIPMENT MOVEMENT OVER PLANTING SOIL TO A MINIMUM - DO NOT OVER COMPACT. INSTALL PLANTING SOIL TO GRADES INDICATED ON THE DRAWING.
 - INSTALL 2"-3" SHREDDED HARDWOOD MULCH (MINIMUM AGE 6 MONTHS) OR COMPOST MULCH EVENLY AS SHOWN ON PLANS. DO NOT APPLY MULCH IN AREAS WHERE GROUND COVER IS TO BE GRASS OR WHERE COVER WILL BE ESTABLISHED BY SEEDING.
 - PROTECT THE RAIN GARDENS FROM SEDIMENT AT ALL TIMES DURING CONSTRUCTION.
 - WHEN THE SITE IS FULLY VEGETATED AND THE SOIL MANTLE STABILIZED, THE PLAN DESIGNER SHALL BE NOTIFIED AND SHALL INSPECT THE RAIN GARDENS AT HIS/HER DISCRETION BEFORE THE AREA IS BROUGHT ONLINE AND SEDIMENT CONTROL DEVICES REMOVED.
 - WATER VEGETATION AT THE END OF EACH DAY FOR TWO WEEKS AFTER PLANTING IS COMPLETED.
 - CONTRACTOR SHOULD PROVIDE A ONE-YEAR 80% CARE AND REPLACEMENT WARRANTY FOR ALL PLANTING BEGINNING AFTER INSTALLATION AND INSPECTION OF ALL PLANTS.

- RAIN GARDEN SEEDING NOTES**
- VEGETATION ON THE INSIDE OF THE RAIN GARDENS SHALL BE EITHER ERNST CONSERVATION SEEDS™ "NATIVE DETENTION AREA MIX" OR "RETENTION BASIN FLOOR MIX - LOW MAINTENANCE" SEED MIXES OR AN APPROVED EQUIVALENT. NO SUBSTITUTIONS AS TO THE SEED MIX SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.
 - PRIOR TO COMMENCEMENT OF INSTALLATION, THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES AND SHALL AVOID DAMAGING UTILITIES DURING INSTALLATION.
 - PRE-EMERGENT HERBICIDES, TRIFLUR OR EPTAM, SHALL BE APPLIED TO THE PLANTING BED. APPLY AT MANUFACTURER'S RECOMMENDATIONS. HERBICIDES SHALL BE INCORPORATED INTO THE SOIL MIXES.
 - SEEDING: EVENLY APPLY THE SEED MIXTURE USING BROADCAST OR DRILL SEEDING METHODS THAT PLANT SEED LESS THAN 1/4-INCH BELOW THE GROUND SURFACE; APPLY LEGUME SEED INOCULANTS SPECIFICALLY MADE FOR THE LEGUME SEED TYPE BEING APPLIED AT FIVE TIMES THE MANUFACTURER'S RECOMMENDED RATE. DO NOT USE SEED OR INOCULANT THAT HAS BEEN IMPROPERLY STORED, EXPIRED, OR SEED OLDER THAN 9 MONTHS FROM THE SEED TEST DATE. ALL SEEDED RAIN GARDENS ARE TO BE MULCHED WITH SHREDDED MULCH OR LEAF COMPOST.
 - THE LANDSCAPE CONTRACTOR SHALL GUARANTEE UNIFORM GRASS AND WILDFLOWER ESTABLISHMENT FOR A PERIOD OF ONE (1) YEAR BEGINNING UPON THE WRITTEN DATE OF SUBSTANTIAL COMPLETION OF THE PROJECT. ADDITIONAL SEEDING, IF NECESSARY SHALL BE MADE AT THE END OF THE WARRANTY PERIOD OR AT TIME AS DETERMINED BY THE OWNERS REPRESENTATIVE.
 - ALL IMPORTED TOPSOIL SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO PLACEMENT.
 - EXISTING GRASS TO BE REMOVED, IF PRESENT, AND TOPSOIL TO BE SPREAD SMOOTH AND HAND-RAKED TO REMOVE ALL ROCKS AND DEBRIS LARGER THAN 1 INCH IN DIAMETER PRIOR TO LAYING SOD OR SEEDING.

- RAIN GARDEN MAINTENANCE**
- RAIN GARDEN SHALL BE INSPECTED QUARTERLY WHILE VEGETATION IS BEING ESTABLISHED. PRUNING AND/OR WEEDING SHALL BE PERFORMED AS NECESSARY DURING THIS TIME PERIOD.
 - DETRITUS SHALL BE REMOVED ONCE PER YEAR. PERENNIAL PLANTINGS SHALL BE CUT AS NECESSARY AT THE END OF THE GROWING SEASON.
 - MULCH SHALL BE RE-SPREAD WHEN EROSION IS EVIDENT AND BE REPLISHED AS NEEDED. ONCE EVERY 2 TO 3 YEARS THE ENTIRE AREA MAY REQUIRE MULCH REPLACEMENT.
 - RAIN GARDENS SHOULD BE INSPECTED AT LEAST TWO TIMES PER YEAR FOR SEDIMENT BUILDUP, EROSION, VEGETATIVE CONDITIONS, ETC.

REVISION RECORD		
NO	DATE	DESCRIPTION
1	3/6/25	REVISED PER 126/26 PADEP COMMENT LETTER, COORDINATION WITH PGC, AND ADDITION OF HDD BORE MONITORING ACCESS

C&E
Civil & Environmental Consultants, Inc.
4350 Northern Pike · Suite 141 · Monroeville, PA 15146
Ph: 724.327.5200 · 800.899.3610 · Fax: 724.327.5280
www.cecinc.com

CALL BEFORE YOU DIG!
PENNSYLVANIA LAW REQUIRES 3 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE AND 10 WORKING DAYS IN DESIGN STAGE--STOP CALL PENNSYLVANIA ONE CALL SYSTEM, INC. 1-800-242-1776

PENNSYLVANIA ONE CALL LAW: 20250311704, 20250311705, 20250311706
PENNSYLVANIA ACT 38 (1991) REQUIRES NO LESS THAN 3 WORKING DAYS NOTICE NOR MORE THAN 10 WORKING DAYS NOTICE FROM EXCAVATORS WHO ARE ABOUT TO: DIG, DRILL, BLAST, AUGER, BORE, GRADE, TRENCH, OR BOMBUSH WHEN IN THE CONSTRUCTION PHASE. FOR LOCATION REQUESTS IN THE STATE OF PENNSYLVANIA, CALL TOLL FREE 1-800-242-1776. UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE INFORMATION AND THE LOCATION MUST BE CONSIDERED APPROXIMATE. OTHER UNDERGROUND UTILITIES MAY EXIST WHICH ARE NOT SHOWN. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN ALL PHYSICAL LOCATIONS OF UTILITY LINES PRIOR TO THE TIME OF CONSTRUCTION. IN NO WAY SHALL THE CONTRACTOR HOLD THE SURVEYOR RESPONSIBLE FOR ANY UTILITY LOCATION SHOWN ON THIS PLAN.

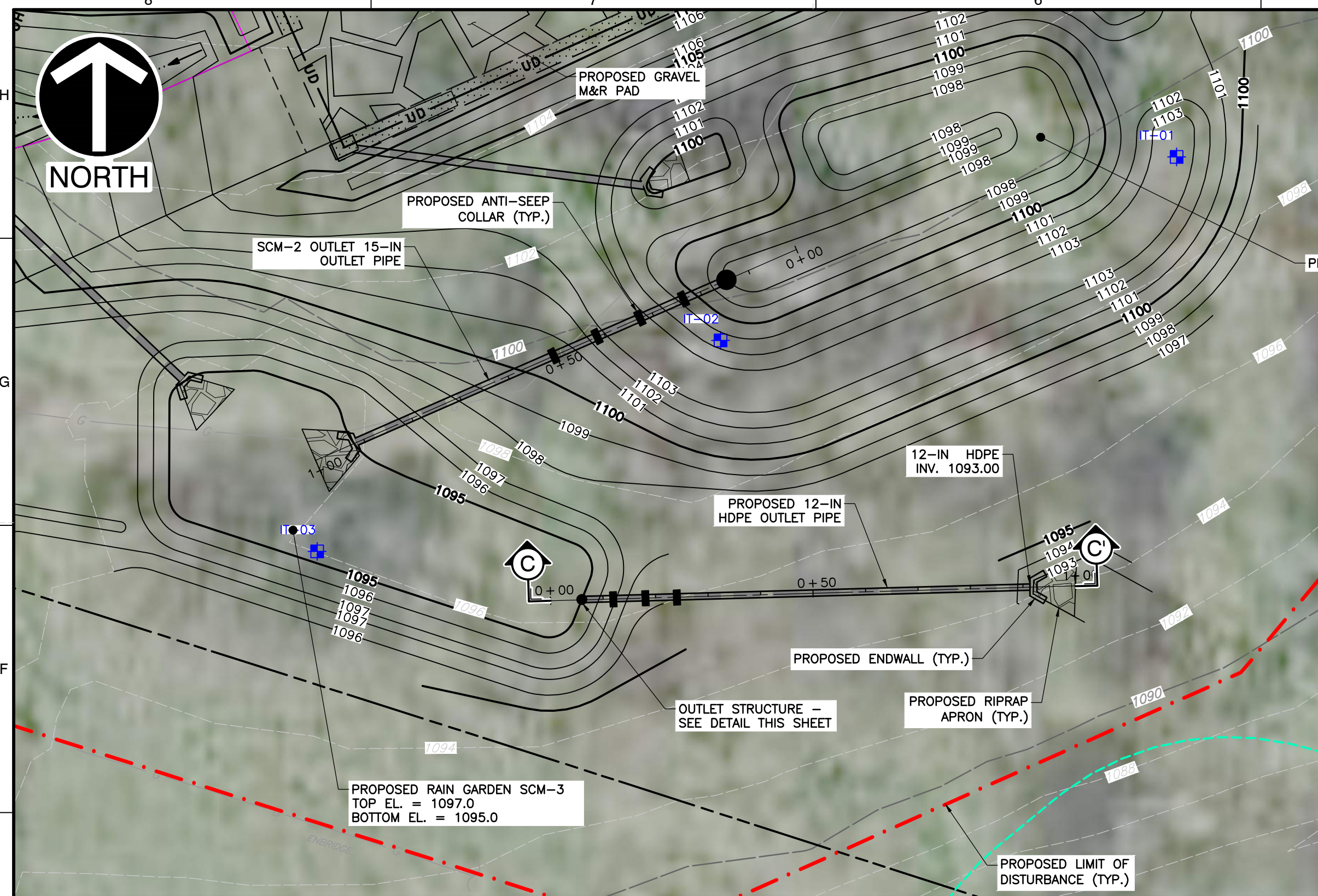
REGISTERED PROFESSIONAL
CHARLES ROBERT KANE
3/6/26

HOMER CITY GENERATION, L.P.
HCPP PIPELINE
BURRELL, BLACKLICK AND CENTER TOWNSHIPS
INDIANA COUNTY, PENNSYLVANIA

DRAWN BY: SCT CHECKED BY: CRK APPROVED BY: CRK
DATE: 09/24/2025 DWG SCALE: 1"=50' PROJECT NO: 354-010

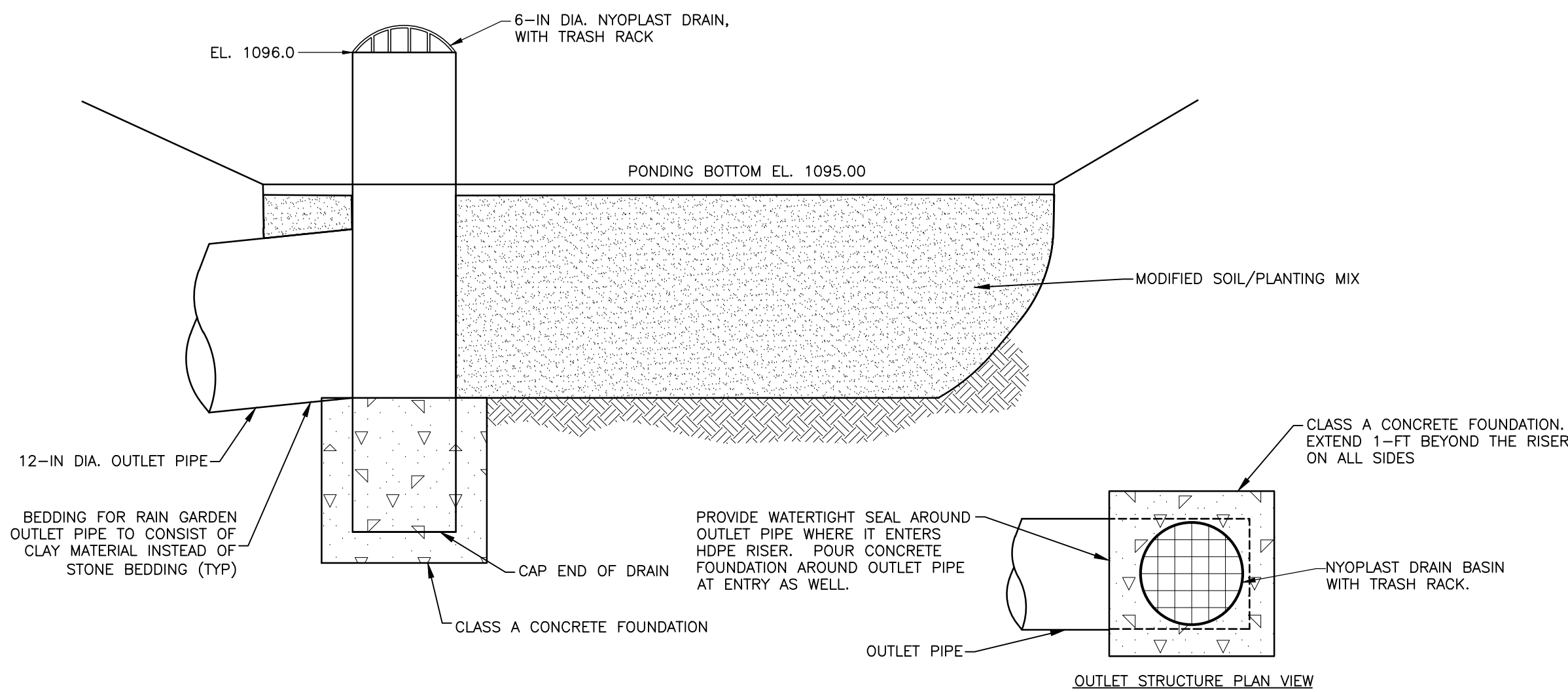
POST-CONSTRUCTION STORMWATER MANAGEMENT/SITE RESTORATION PLAN
PCSM/SR DETAILS

C339
SHEET 40 OF 43

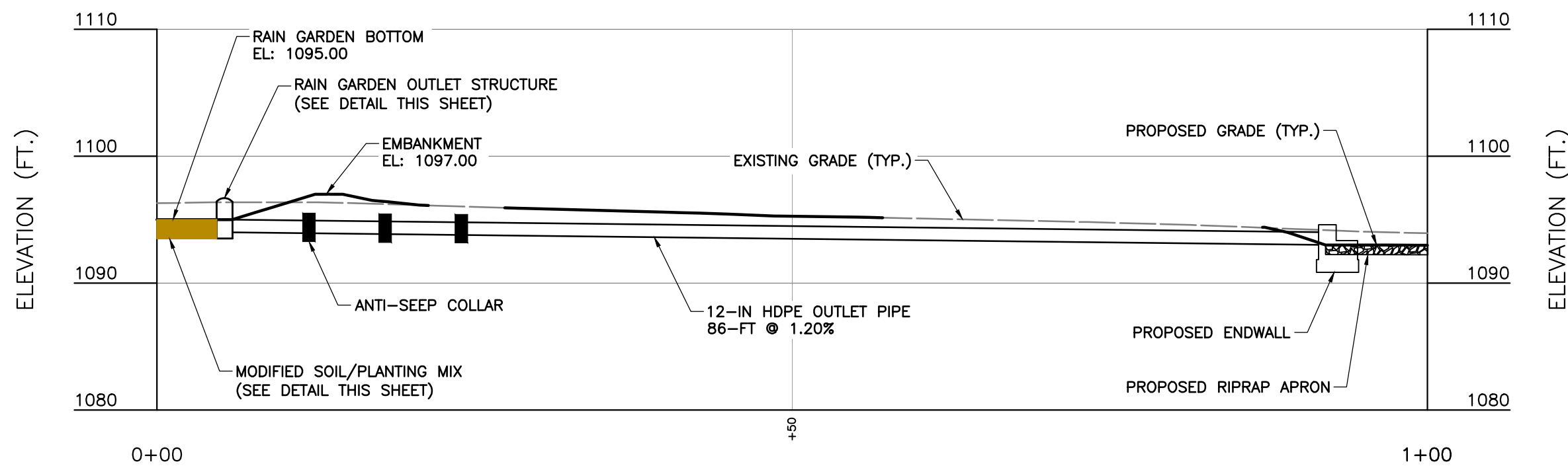


PLAN VIEW
SCALE IN FEET
0 20 40

PROPOSED DETENTION BASIN SCM-2

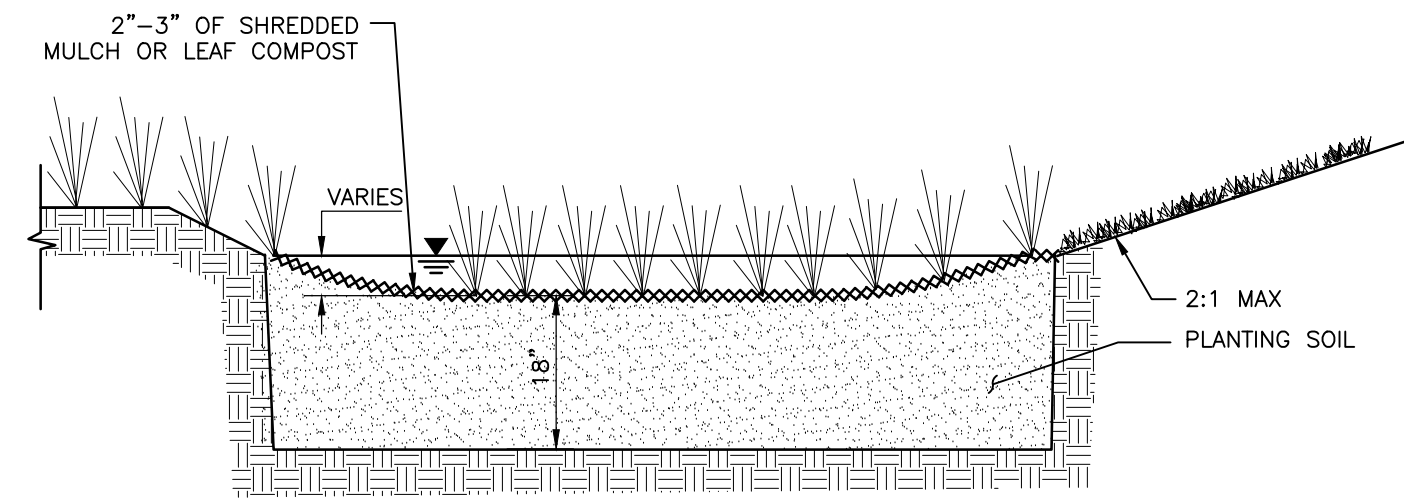


SCM-3 RAIN GARDEN OUTLET STRUCTURE
NOT TO SCALE



CROSS-SECTION C-C
SCALE IN FEET
0 10 20

**DETAIL 9
SCM-3 (RAIN GARDEN)**



TYPICAL RAIN GARDEN CROSS-SECTION
N.T.S.

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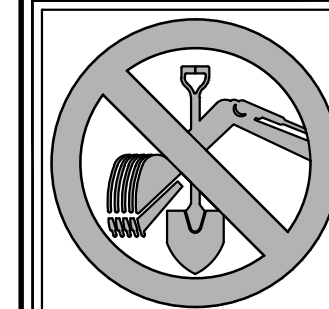
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REVISION RECORD		
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1	3/6/26	REVISED PER 1/26/26 PADEP COMMENT LETTER, COORDINATION WITH PGC, AND ADDITION OF HDD BORE MONITORING ACESSES

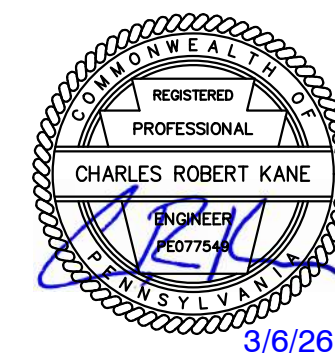


Civil & Environmental Consultants, Inc.
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CALL BEFORE YOU DIG!
PENNSYLVANIA LAW REQUIRES
3 WORKING DAYS NOTICE FOR
CONSTRUCTION PHASE AND 10 WORKING
DAYS IN DESIGN STAGE--STOP CALL
PENNSYLVANIA ONE CALL SYSTEM, INC.
1-800-242-1776

PENNSYLVANIA ONE CALL LAW: 20250311704, 20250311705, 20250311706
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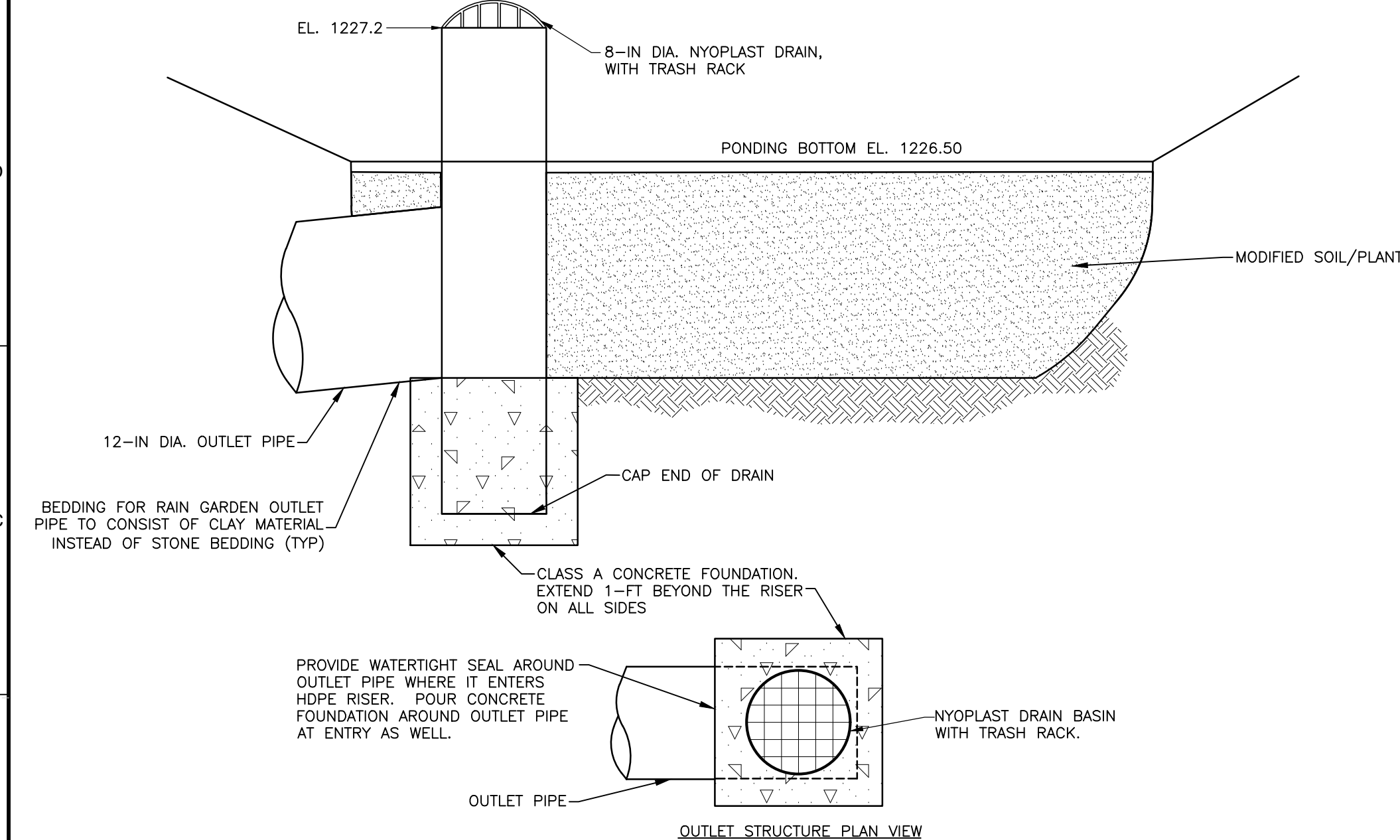
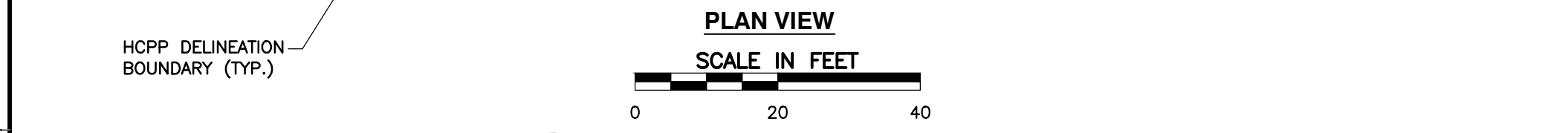
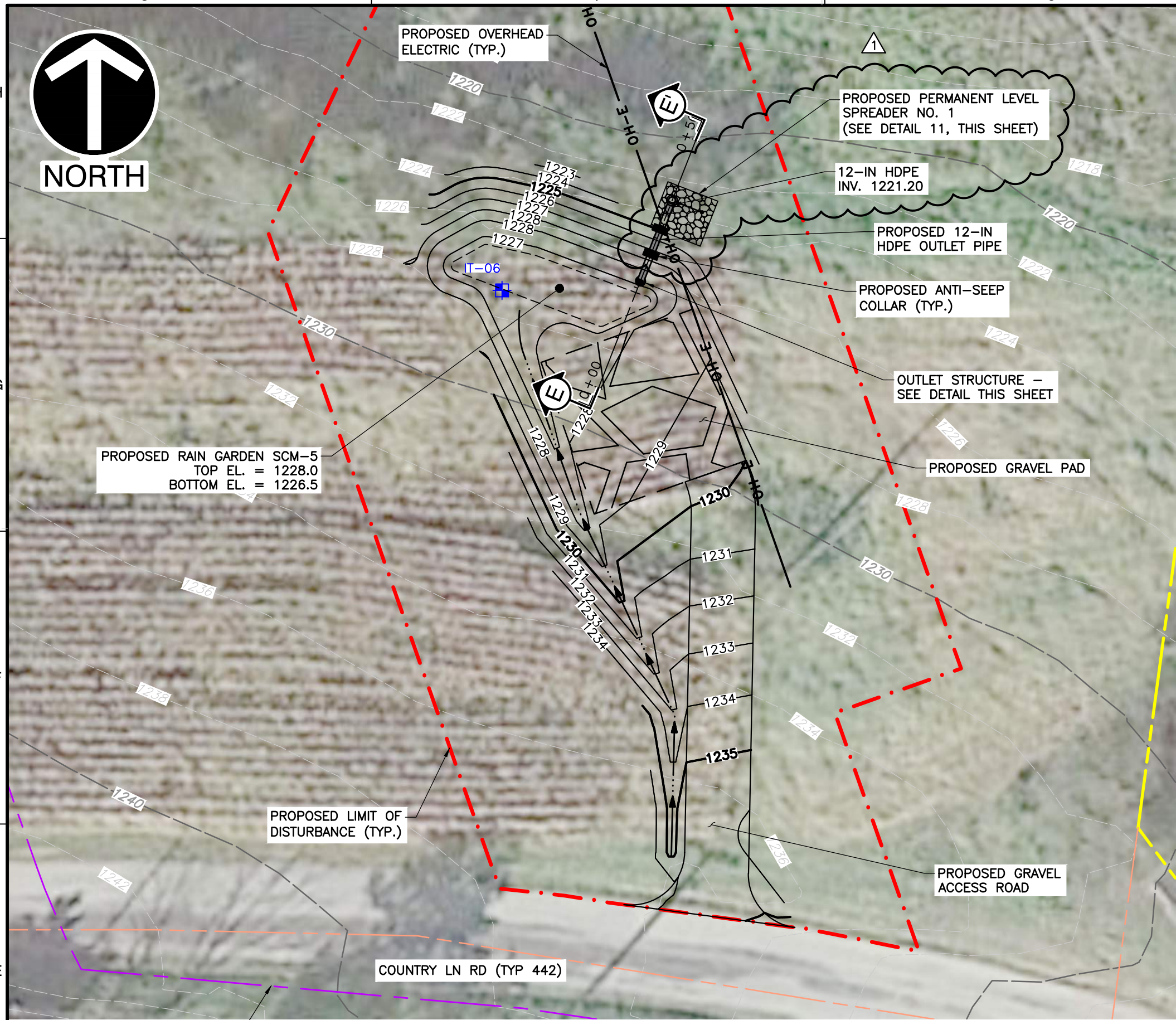


HOMER CITY GENERATION, L.P.
HCPP PIPELINE
BURRELL, BLACKLICK AND CENTER TOWNSHIPS
INDIANA COUNTY, PENNSYLVANIA

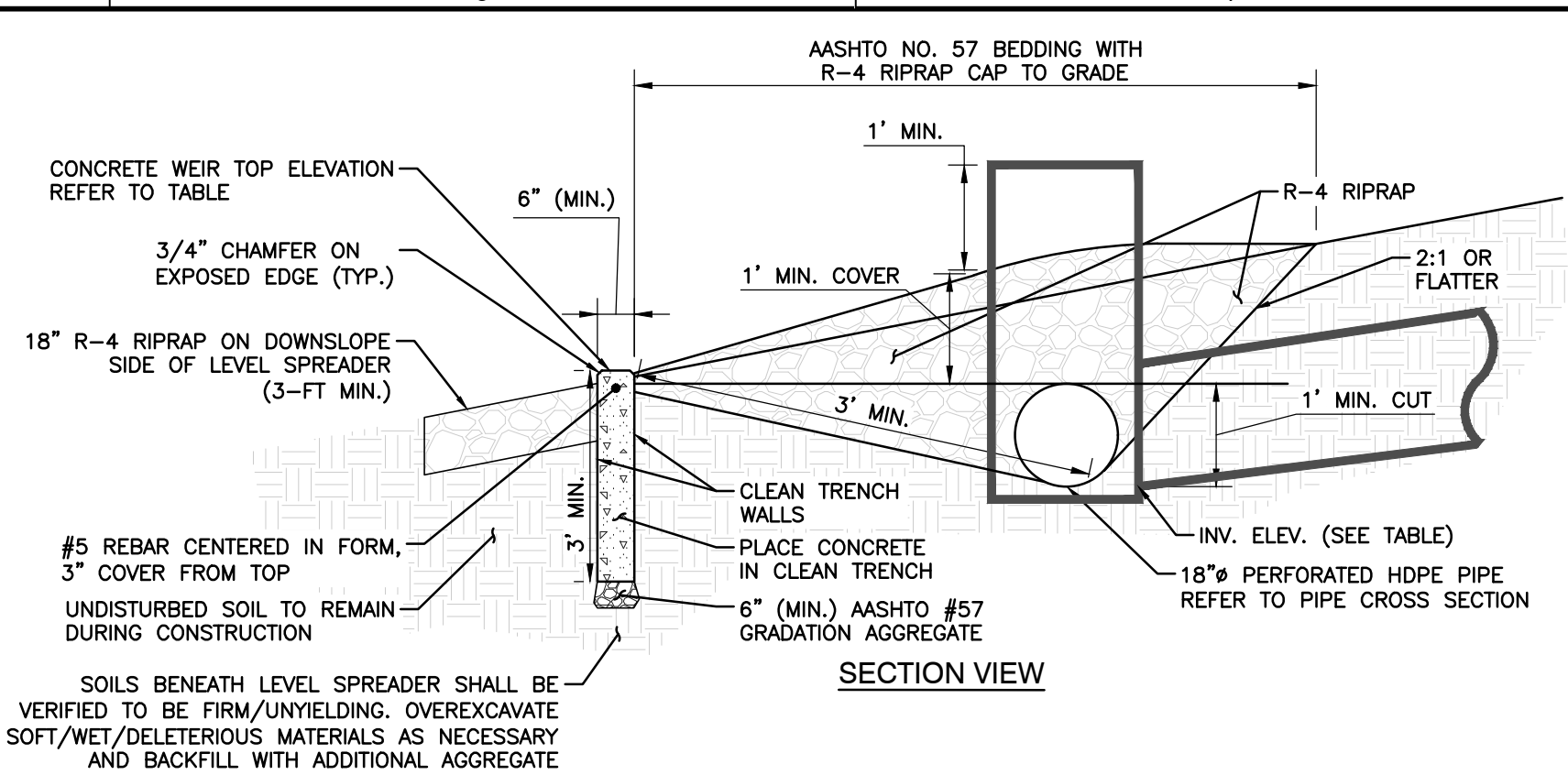
DRAWN BY: SCT | CHECKED BY: CRK | APPROVED BY: CRK
DATE: 09/24/2025 | DWG SCALE: 1"=50' | PROJECT NO: 354-010

**POST-CONSTRUCTION STORMWATER
MANAGEMENT/SITE RESTORATION PLAN
PCSM/SR DETAILS**

C341
SHEET 42 OF 43



SCM-4 RAIN GARDEN OUTLET STRUCTURE
NOT TO SCALE



PIPED GRAVEL LEVEL SPREADER DIMENSION TABLE

SPREADER ID	STAND PIPE DIAMETER (IN)	PERFORATED PIPE DIAMETER (IN)	PERFORATED PIPE INVERT ELEV.	PERFORMANCE CROSS SECTIONAL AREA PER LF (IN ²)	TOTAL PERFORATED PIPE LENGTH (FT)	TOP OF CONCRETE WEIR ELEVATION
1	24	18	1221.20	6.60	5	1222.00

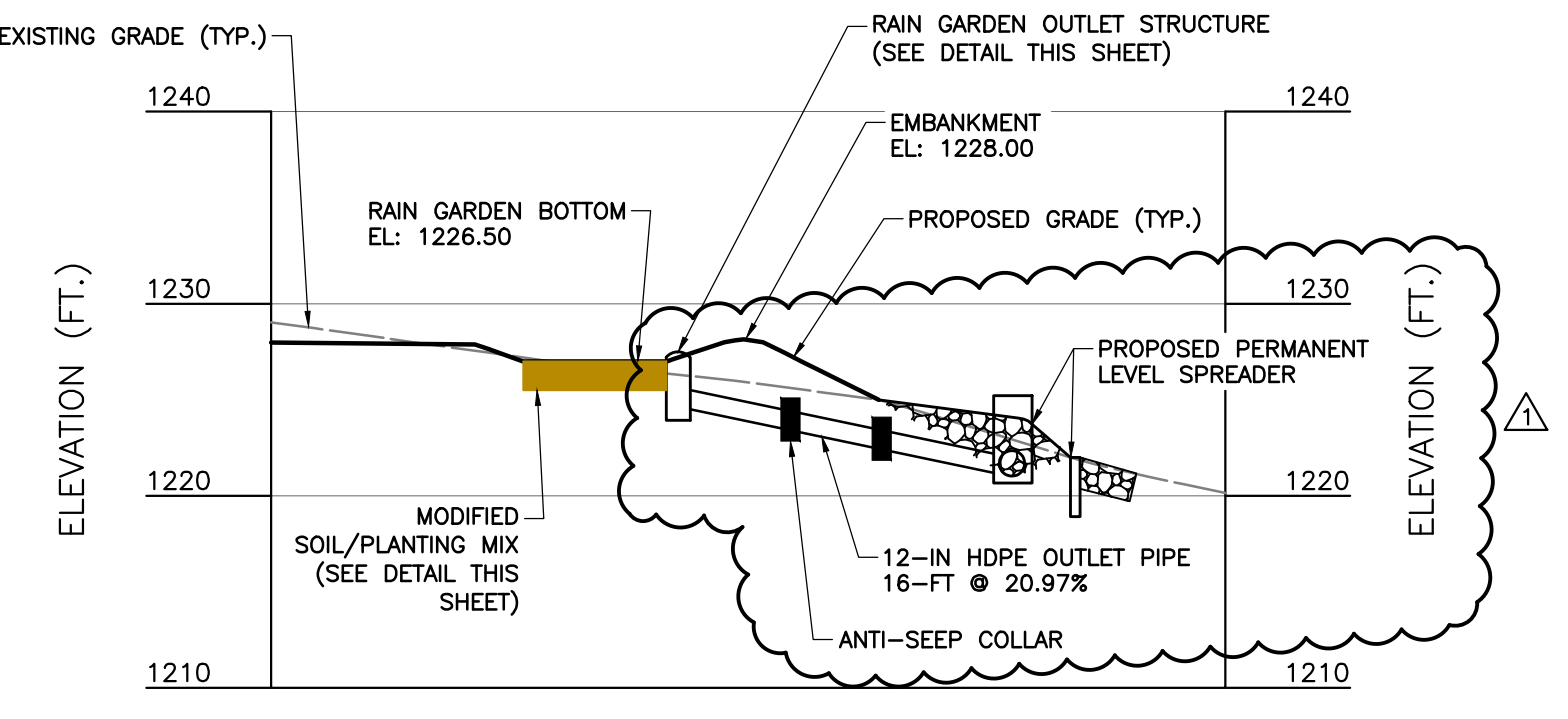
- REINFORCING STEEL NOTES:**
1. REINFORCING BARS: ASTM A615, GRADE 60 DEFORMED.
 2. HOOKS AND BEND SHALL BE A61 STANDARD.
 3. CONTINUOUS REINFORCING BARS SHALL BE PROVIDED WITH TENSION LAPS AT ALL SPLICES, UNLESS NOTED OTHERWISE. LAP SPLICES SHALL BE 24" (MIN).
 4. REINFORCING STEEL SHALL BE WIRED TOGETHER AND HELD SECURELY IN POSITION WITH STANDARD ACCESSORIES IN CONCRETE PRIOR TO AND DURING POUR.

- CONCRETE NOTES:**
1. ALL CONCRETE AGGREGATES SHALL COMPLY WITH ASTM C33 (NORMAL WEIGHT).
 2. DESIGN FORMWORK FOR THE LOADS, LATERAL PRESSURE AND ALLOWABLE STRESSES OUTLINED IN ACI 347.
 3. FORMWORK SHALL BE SHORED ADEQUATELY TO ENSURE THAT IT WILL NOT MOVE DURING POURING OR CURING OF THE CONCRETE.
 4. CONCRETE SHALL HAVE THE FOLLOWING MIX REQUIREMENTS:

28-DAY COMPRESSIVE STRENGTH (f _c , PSI)	AIR ENTRAINMENT (+/- 1%)	MAX NOM AGG SIZE	CEMENT TYPE	WATER/CEMENT RATIO
4,000	6	0	I/II	0.47 MAX

NOTE:
IF THE LEVEL SPREADER IS USED AS AN EROSION AND SEDIMENTATION CONTROL MEASURE, IT MUST BE RECONFIGURED (FLUSH PERFORATED PIPE, CLEAN OUT ALL SEDIMENT) TO ITS ORIGINAL STATE BEFORE USE AS A PERMANENT STORMWATER FEATURE.

DETAIL 11 PIPED LEVEL SPREADER
N.T.S.



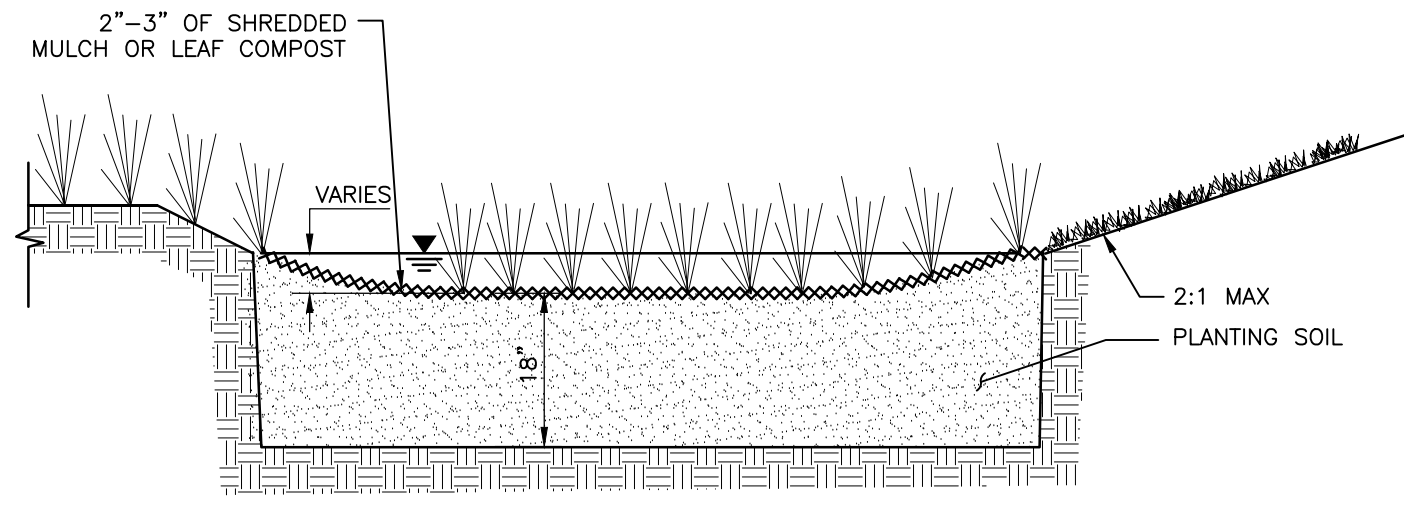
CROSS-SECTION D-D'
SCALE IN FEET

- SUB-GRADE PREPARATION**
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 2. INITIAL EXCAVATION CAN BE PERFORMED DURING ROUGH SITE GRADING BUT SHALL NOT BE CARRIED TO WITHIN ONE FOOT OF THE FINAL BOTTOM ELEVATION. FINAL EXCAVATION SHOULD NOT TAKE PLACE UNTIL ALL DISTURBED AREAS IN THE DRAINAGE AREA HAVE BEEN STABILIZED.
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 5. HALT EXCAVATION AND NOTIFY ENGINEER IMMEDIATELY IF EVIDENCE OF SINKHOLE ACTIVITY OR PINNACLES OF CARBONATE BEDROCK ARE ENCOUNTERED IN THE RAIN GARDENS.

- RAIN GARDEN SEEDING NOTES**
1. VEGETATION ON THE INSIDE OF THE RAIN GARDENS SHALL BE EITHER ERNST CONSERVATION SEEDS "NATIVE DETENTION AREA MIX" OR "RETENTION BASIN FLOOR MIX - LOW MAINTENANCE" SEED MIXES OR AN APPROVED EQUIVALENT. NO SUBSTITUTIONS AS TO THE SEED MIX SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.
 2. PRIOR TO COMMENCEMENT OF INSTALLATION, THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES AND SHALL AVOID DAMAGING UTILITIES DURING INSTALLATION.
 3. PRE-EMERGENT HERBICIDES, TRIFLOR OR EPTAM, SHALL BE APPLIED TO THE PLANTING BED. APPLY AT MANUFACTURER'S RECOMMENDATIONS. HERBICIDES SHALL BE INCORPORATED INTO THE SOIL MIXES.
 4. SEEDING: EVENLY APPLY THE SEED MIXTURE USING BROADCAST OR DRILL SEEDING METHODS THAT PLANT SEED LESS THAN 1/4-INCH BELOW THE GROUND SURFACE. APPLY LEGUME SEED INOCULANTS SPECIFICALLY MADE FOR THE LEGUME SEED TYPE BEING APPLIED AT FIVE TIMES THE MANUFACTURER'S RECOMMENDED RATE. DO NOT USE SEED OR INOCULANT THAT HAS BEEN IMPROPERLY STORED, EXPIRED, OR SEED OLDER THAN 9 MONTHS FROM THE SEED TEST DATE. ALL SEEDED RAIN GARDENS ARE TO BE MULCHED WITH SHREDDED MULCH OR LEAF COMPOST.
 5. THE LANDSCAPE CONTRACTOR SHALL GUARANTEE UNIFORM GRASS AND WILDFLOWER ESTABLISHMENT FOR A PERIOD OF ONE (1) YEAR BEGINNING UPON THE WRITTEN DATE OF SUBSTANTIAL COMPLETION OF THE PROJECT. ADDITIONAL SEEDING, IF NECESSARY SHALL BE MADE AT THE END OF THE WARRANTY PERIOD OR AT TIME AS DETERMINED BY THE OWNER'S REPRESENTATIVE.
 6. ALL IMPORTED TOPSOIL SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO PLACEMENT.
 7. EXISTING GRASS TO BE REMOVED, IF PRESENT, AND TOPSOIL TO BE SPREAD SMOOTH AND HAND-RAKED TO REMOVE ALL ROCKS AND DEBRIS LARGER THAN 1 INCH IN DIAMETER PRIOR TO LAYING SOIL OR SEEDING.

- PLANTING SOIL**
- PLANTING SOIL MIX SHALL BE CLASSIFIED AS A MODIFIED SANDY LOAM ACCORDING TO THE USDA SOIL CLASSIFICATION AND SHALL CONSIST OF A 50% TOPSOIL (REMOVE ALL ROCKS AND FOREIGN MATTER), 20% COMPOST, AND 30% SAND.
 - PLANTING SOIL SHOULD BE APPROXIMATELY 4 INCHES DEEPER THAN THE BOTTOM OF THE LARGEST ROOT BALL OR PER DRAWINGS AND DETAILS WHICH EVER IS DEEPER.
 - THE PH SHOULD BE BETWEEN 5.5 AND 6.5, A CLAY CONTENT BETWEEN 5% AND 20% (SANDY LOAM), BE FREE OF TOXIC SUBSTANCES AND UNWANTED PLANT MATERIAL AND HAVE A MINIMUM SOIL ORGANIC MATTER LEVEL OF 5% ON THE WHOLE-SOIL (UNSEIVED) BASIS.
 - PLANTING SOIL SHALL BE UNCOMPACTED.

- RAIN GARDEN INSTALLATION**
1. **CRITICAL STAGE:** DURING AND FOLLOWING CONSTRUCTION OF THE RAIN GARDEN, THE CONTRACTOR SHALL TAKE MEASURES TO PREVENT SEDIMENT-LADEN WATER FROM ENTERING THE SOIL TO THE EXTENT PRACTICABLE. WHILE CONSTRUCTING THE RAIN GARDEN EMBANKMENT, INSTALL PERMANENT OUTLET STRUCTURE, OUTLET PIPE, ANTI-SEEP COLLARS AND LEVEL SPREADER. CONSTRUCTION OF THESE FEATURES IS A CRITICAL STAGE OF CONSTRUCTION REQUIRING OVERSIGHT BY A LICENSED PROFESSIONAL OR THEIR DESIGNEE.
 2. **CRITICAL STAGE:** CONTRACTOR SHALL TAKE MEASURES TO MINIMIZE COMPACTION WITHIN THE SUBGRADE FOOTPRINT, TO THE EXTENT PRACTICABLE. UPON REACHING SUBGRADE ELEVATION, THE CONTRACTOR SHALL PERFORM DECOMPACTION VIA SCARIFYING OR TILLING THE EXPOSED SOIL LAYER USING LIGHTWEIGHT EQUIPMENT AND NOTIFY THE ENGINEER FOR CONFIRMATION OF DECOMPACTION. FOLLOWING CONFIRMATION OF DECOMPACTION, CONFIRMATION INFILTRATION TESTING SHALL BE PERFORMED. UPON COMPLETION OF CONFIRMATION INFILTRATION TESTING, PLANTING SOILS MAY BE PLACED. CONFIRMATION OF SUBGRADE DECOMPACTION, CONFIRMATION INFILTRATION TESTING, AND PLACEMENT OF PLANTING SOILS ARE CRITICAL STAGES OF CONSTRUCTION REQUIRING OVERSIGHT BY A LICENSED PROFESSIONAL OR THEIR DESIGNEE.
 3. ANY ACCUMULATION OF DEBRIS OR SEDIMENT THAT TAKES PLACE AFTER APPROVAL OF SUB-GRADE SHALL BE REMOVED PRIOR TO INSTALLATION OF PLANTING SOILS AT NO EXTRA COST TO THE OWNER.
 4. INSTALL PLANTING SOIL IN 18-INCH MAXIMUM LIFTS AND LIGHTLY COMPACT (TAMP WITH A BACKHOE BUCKET OR BY HAND). KEEP EQUIPMENT MOVEMENT OVER PLANTING SOIL TO A MINIMUM - DO NOT OVER COMPACT. INSTALL PLANTING SOIL TO GRADES INDICATED ON THE DRAWING.
 5. INSTALL 2-3" SHREDDED HARDWOOD MULCH (MINIMUM AGE 6 MONTHS) OR COMPOST MULCH EVENLY AS SHOWN ON PLANS. DO NOT APPLY MULCH IN AREAS WHERE GROUND COVER IS TO BE GRASS OR WHERE COVER WILL BE ESTABLISHED BY SEEDING.



TYPICAL RAIN GARDEN CROSS-SECTION
N.T.S.

DETAIL 10 SCM-4 (RAIN GARDEN)

REVISION RECORD

NO	DATE	DESCRIPTION
1	3/6/25	REVISED PER 126/25 PADEP COMMENT LETTER, COORDINATION WITH PGC, AND ADDITION OF HDD BORE MONITORING ACCESS

C&E
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CALL BEFORE YOU DIG!
PENNSYLVANIA LAW REQUIRES 3 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE AND 10 WORKING DAYS IN DESIGN STAGE-STOP CALL PENNSYLVANIA ONE CALL SYSTEM, INC. 1-800-242-1776

PENNSYLVANIA ONE CALL LAW: 20250311704, 20250311705, 20250311706
PENNSYLVANIA ACT 35 (1991) REQUIRES NO LESS THAN 3 WORKING DAYS NOTICE NOR MORE THAN 10 WORKING DAYS NOTICE FROM EXCAVATORS WHO ARE ABOUT TO: DIG, DRILL, BLAST, AUGER, BORE, GRADE, TRENCH, OR BOMBUSH WHEN IN THE CONSTRUCTION PHASE FOR LOCATION REQUESTS IN THE STATE OF PENNSYLVANIA. CALL TOLL FREE 1-800-242-1776. UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE INFORMATION AND THE LOCATION MUST BE CONSIDERED APPROXIMATE. OTHER UNDERGROUND UTILITIES MAY EXIST WHICH ARE NOT SHOWN. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN ALL PHYSICAL LOCATIONS OF UTILITY LINES PRIOR TO THE TIME OF CONSTRUCTION. IN NO WAY SHALL THE CONTRACTOR HOLD THE SURVEYOR RESPONSIBLE FOR ANY UTILITY LOCATION SHOWN ON THIS PLAN.

HOMER CITY GENERATION, L.P.
HCPP PIPELINE
BURRELL, BLACKLICK AND CENTER TOWNSHIPS
INDIANA COUNTY, PENNSYLVANIA

DRAWN BY: SCT CHECKED BY: CRK APPROVED BY: CRK
DATE: 09/24/2025 DWG SCALE: 1"=50' PROJECT NO: 354-010

POST-CONSTRUCTION STORMWATER MANAGEMENT/SITE RESTORATION PLAN
PCSM/SR DETAILS

C342
SHEET 43 OF 43

CHARLES ROBERT KANE
REGISTERED PROFESSIONAL ENGINEER
3/6/26